

Design and Development of a Generic Architecture
for

APPAREL MANUFACTURING ARCHITECTURE
[Version 1.5]

Volume III: The Information Model

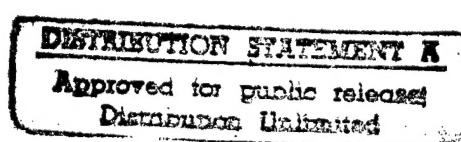
Research Sponsored by:

U.S. Defense Logistics Agency

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Principal Investigator: Dr. Sundaresan Jayaraman
Graduate Research Assistant: Aruna Cidambi

Georgia Tech Project #: E-27-628



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13. ABSTRACT (Maximum 200 words) Research has been carried out to design and develop a generic architecture for an apparel enterprise that can serve as a blueprint for a computer-integrated apparel enterprise (CIAE). The Apparel Manufacturing Architecture (AMA) -- the first comprehensive architecture for manufacturing -- has been developed and validated in close collaboration with the apparel industry. AMA consists of a set of models the core of which is the <i>information</i> model which defines the schema of the shared information base for an apparel enterprise. The <i>function</i> model component of the architecture specifies how the activities carried out in an apparel manufacturing enterprise interact with each other through the shared information base. The third component of AMA, the <i>dynamics</i> model, describes how the interactions among the enterprise activities take place over time. The Recruit Induction Center Architecture (RICA) models the uniform distribution process at the Recruit Induction Center (RIC). Volume III documents the Information model.		
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APPAREL MANUFACTURING ARCHITECTURE
[Version 1.5]

Volume III: The Information Model

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(DLA900-87-D-0018/CLIN 0007)

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PREFACE

The Apparel Manufacturing Architecture (AMA) is a comprehensive set of specifications for a Computer-Integrated Apparel Enterprise. The research on the development of AMA began at Georgia Tech in July 1988; it is being funded by the US Defense Logistics Agency. Oxford Slacks in Monroe, Georgia, was the first industry partner actively collaborating in the initial development activities. Subsequently, several member companies of the American Apparel Manufacturers Association (AAMA) participated in reviewing and enhancing the draft version of AMA. In October 1992, Version 1.0 of AMA was released in two volumes; the first contained the Function and Dynamics Models while the second contained the Information Model.

To test and validate AMA in the real-world, two plant implementations were successfully carried out with the active collaboration of Dowling Textiles of McDonough, Georgia, and Terry Manufacturing of Roanoke, Alabama. Just as continued maintenance, updating and support are essential for any acquired technology to have a long and meaningful impact, AMA has been reviewed regularly and opportunities for enhancing it identified. To formalize this enhancement process, a two-day Workshop was convened in April 1994 in which experts from industry, academia, research laboratories and government agencies participated. At this Workshop, AMA was reviewed in-depth and areas for enhancing it were actively discussed. The results from the Workshop have been used to create this version of AMA, Version 1.5.

AMA [Version 1.5] is being released in three volumes: Volume I: AMA Primer; Volume II: The Function Model; and Volume III: The Information Model.

Volume I introduces the modeling techniques used in developing AMA and provides an overview of AMA. It is intended to serve as a guide to understand the Function and Information Models in Volumes II and III, respectively. Volume II contains the Function model along with a glossary of terms used in the model. Likewise, Volume III contains the Information model along with the respective entity definitions in AMA. In addition to these, it contains a table of all the entities and their attributes. For each attribute, its SQL “attribute type”, e.g., Character, Numeric or Date, is defined.

As with any such major research effort, the active participation of several individuals and organizations led to this architecture and their contributions are thankfully acknowledged (please see Acknowledgments for complete listing). Any comments on AMA including suggestions for enhancements are welcome.

Sundaresan Jayaraman
Atlanta, Georgia

ACKNOWLEDGMENTS

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Graduate Research Assistants

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Mr. Rajeev Malhotra
Mr. Badri Narasimhan
Mr. Sambasivan Narayanan
Mr. Annajee Rao Nott
Mr. M. C. Ramesh
Mr. K. Srinivasan
Ms. Yin Zhou

Research Sponsors

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Ms. Julie Tsao, Defense Logistics Agency
Ms. Helen Kerlin, Defense Logistics Agency

Industry Partners

Oxford Slacks, Monroe, Georgia
Dowling Textiles, McDonough Georgia
Terry Manufacturing, Roanoke, Alabama
American Apparel Manufacturers Association

Workshop Participants

Mr. John Adams, Georgia Tech
Mr. John Baumgartner, Oxford Industries
Professor Larry Haddock, Southern Tech
Dr. Chris Jarvis, Clemson University
Mr. George Murphy, Warren Featherbone
Ms. Tina Lee, NIST
Mr. Howard Moncarz, NIST
Dr. Jane MacFarlane, Lawrence Berkeley Laboratories
Mr. Don O'Brien, DLA
Mr. Musa Rubin, Kurt Salmon Associates
Mr. Brad Smith, Wizdom Systems
Ms. Julie Tsao, DLA

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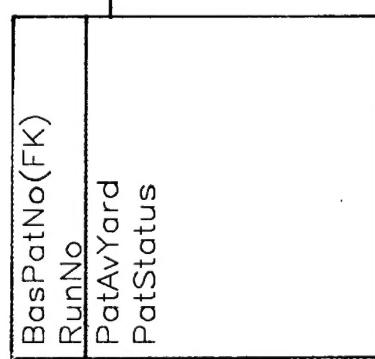
- I THE INFORMATION MODEL**
- II DEFINITION OF TERMS USED IN THE INFORMATION MODEL**
- III TABLE OF ENTITIES AND THEIR ATTRIBUTES**

Section I

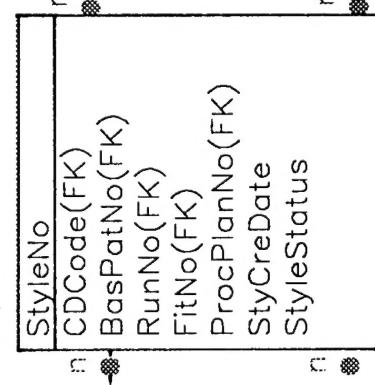
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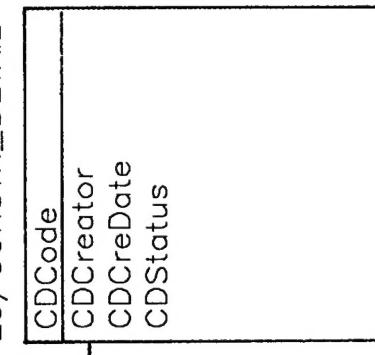
E14 / PATTERN



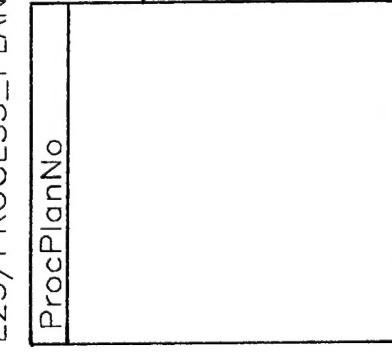
E1 / STYLE



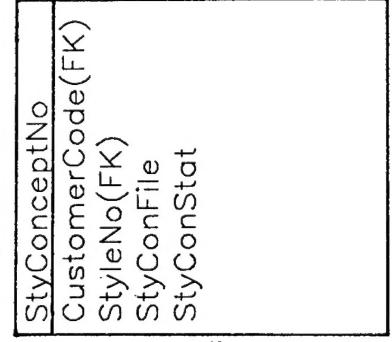
E3 / CONSTR_DETAIL



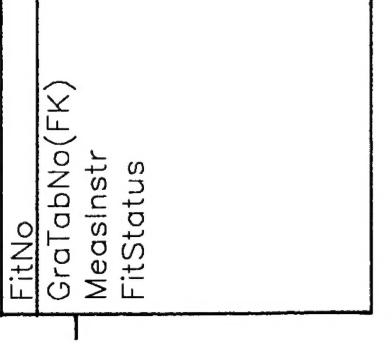
E23 / PROCESS_PLAN



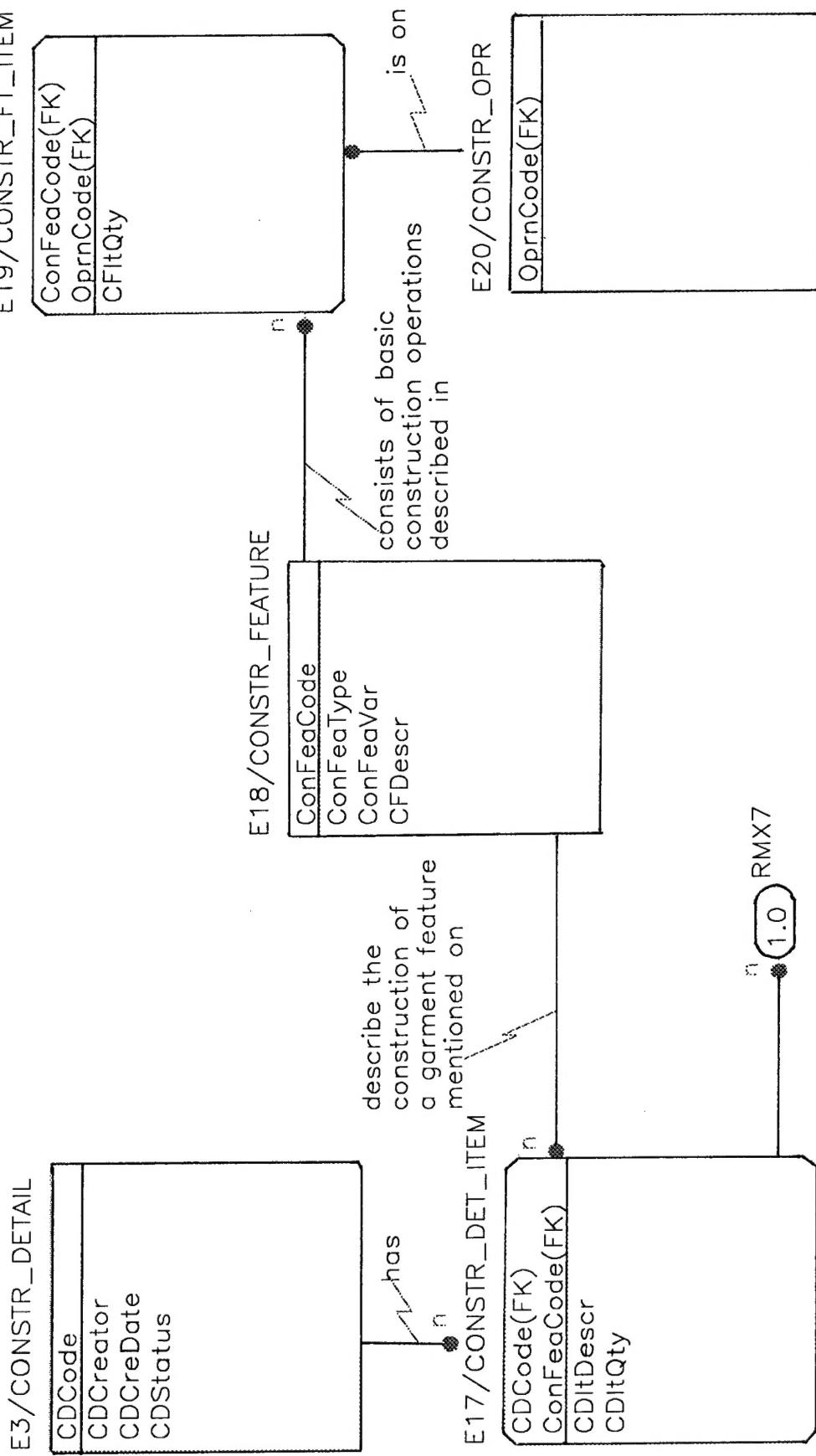
E109 / STYLE_CONCEPT



E2 / FIT

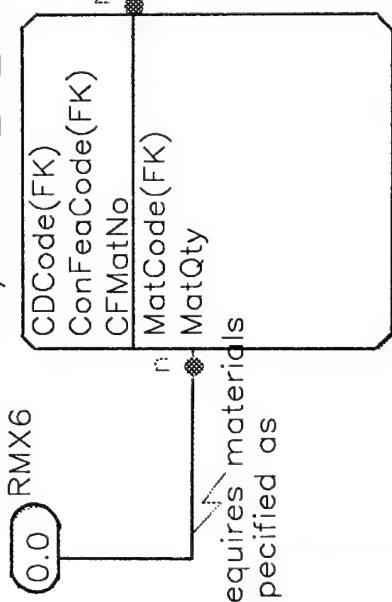


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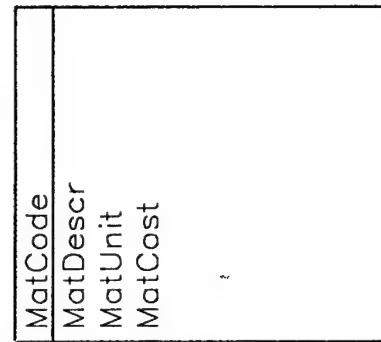


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E21/CONSTR_FT_MAT

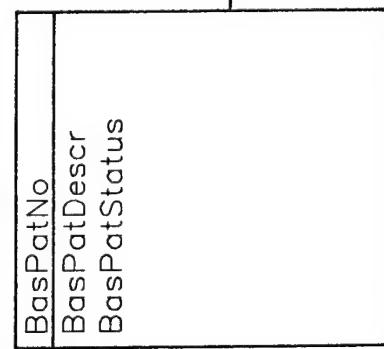


E22/MATERIAL

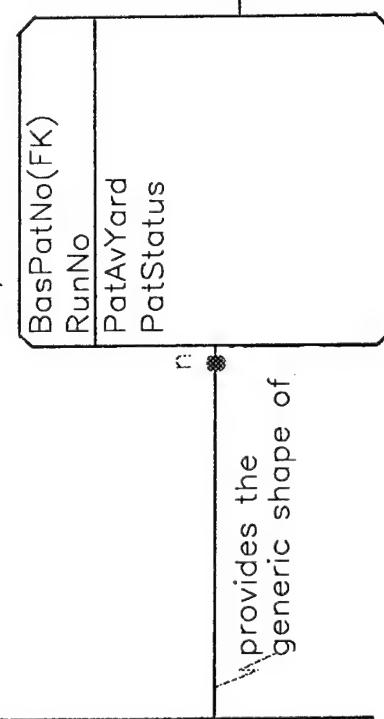


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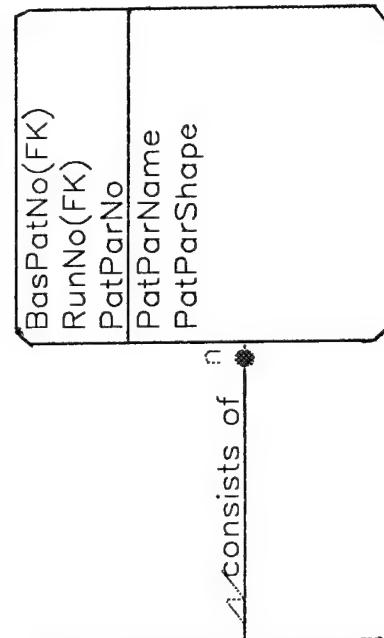
E13 / BASE_PATTERN



E14 / PATTERN

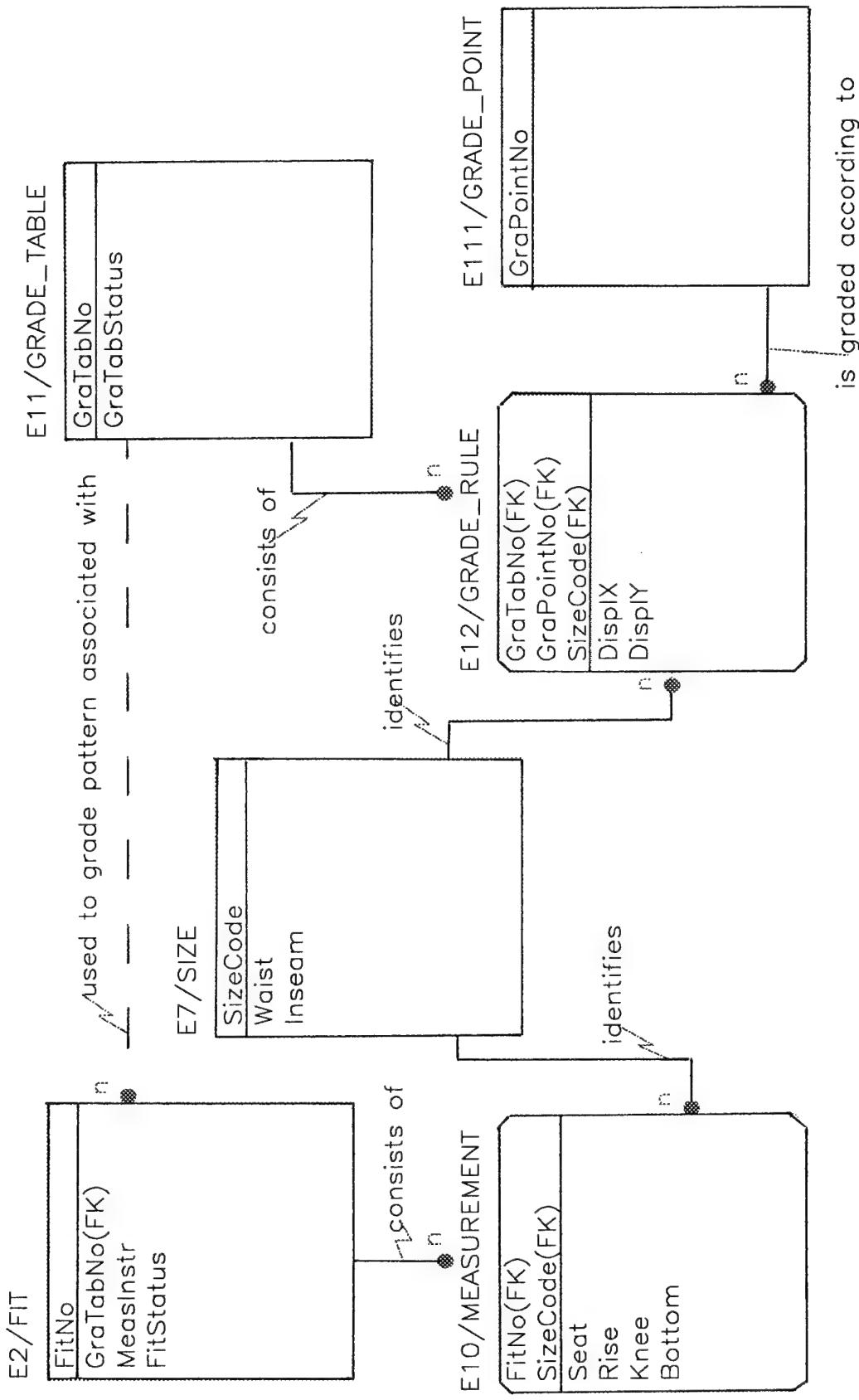


E15 / PATTERN_PART



provides the generic shape of

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is graded according to

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NOTES : 1 2 3 4 5 6 7 8 9 10	PUBLICATION				

E15 / PATTERN_PART

BasPatNo(FK)
RunNo(FK)
PatParNo(FK)
PatParName
PatParShape

E115 / PATTERN_PART

BasPatNo(FK)
RunNo(FK)
PatParNo(FK)
PatParName
PatParShape

is graded to obtain

E16 / GRAD_PAT_PART

BasPatNo(FK)
RunNo(FK)
PatParNo(FK)
SizeCode(FK)

n
specifies the
size of

E111 / GRADE_POINT

GraPointNo
BasPatNo(FK)
RunNo(FK)
PatParNo(FK)
GPLocX
GPLocY

n
specifies the
grade point on

E110 / PAT_GRADE_POINT

GraPointNo(FK)
BasPatNo(FK)
RunNo(FK)
PatParNo(FK)
GPLocX
GPLocY

n
is marked with

E111 / GRADE_POINT

CONTEXT
10
1

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NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION			1

E23/PROCESS_PLAN

ProcPlanNo

provides the output state resulting from

is a sequence of

E20/CONSTR_OPR

OpnCode(FK)

is the manufacturing operation specified on

E24/PROCESS_STEP

ProcPlanNo(FK)

ProcStepNo(FK)

OpnCode(FK)

ProcStatCode(FK)

requires as its inputs

E26/PROCESS_STATE

ProcStatCode

specifies the

E27/PROC_INPUT_STAT

ProcPlanNo(FK)

ProcStepNo(FK)

ProcStatCode(FK)

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COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY				RECOMMENDED			
NOTES : 1 2 3 4 5 6 7 8 9 10				PUBLICATION			

E109/STYLE_CONCEPT

StyConceptNo	CustomerCode(FK)	StyleNo(FK)	StyConFile	StyConStat
--------------	------------------	-------------	------------	------------

provides the
design requirements
as

provides the garment's
description for



E8/SAMPLE_REQ

SReqNo	StyConceptNo(FK)	SReqDate	SDelDate	SActDelDate	SSpelInstr	SReqStat	QualRepNo(FK)
--------	------------------	----------	----------	-------------	------------	----------	---------------

contains

E4/CUSTOMER

CustomerCode	CustName	CustAddr	CustContact	CustStdSpec
--------------	----------	----------	-------------	-------------

E7/SIZE

SizeCode	Waist	Inseam
----------	-------	--------

specifies the
size of

E9/SAM_REQ_ITEM

SReqNo(FK)	SReqItemNo	SizeCode(FK)	SamQty	SReqItDescr
------------	------------	--------------	--------	-------------

specifies the
size of

USED AT	AUTHOR : Cidambi/Nott PROJECT : AMA_1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/19/89 REV :04/11/95 WORKING DRAFT RECOMMENDED PUBLICATION	READER DATE 10 1	CONTEXT 10 1
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E8/SAMPLE_REQ

SReqNo	StyConceptNo(FK)
SReqDate	SReqDate
SDelDate	SDelDate
SActDelDate	SActDelDate
SSpellInstr	SSpellInstr
SReqStat	SReqStat
QualRepNo(FK)	QualRepNo(FK)

n records the results of quality testing of garments produced for E83/QUALITY_REPORT

QualRepNo	QRResDescr
QRRecAction	

E5/SAM_PROD_ASSGNMT

SDProdPeriod(FK)	SDSChitNo(FK)
SEmpCode(FK)	SEmpCode(FK)

n is scheduled for production as 1

n is produced through

E92/SAM_DEPT_SCH_ITEM

SDProdPeriod(FK)	SDSChitNo
SDSChitNo	SReqNo(FK)
SReqNo(FK)	SDItStDate
SDItStDate	SDItFinDate
SDItFinDate	SDActFinDate
SDActFinDate	SDAssgnType

E94/SAL_EMPLOYEE

SEmpCode	PlantCode(FK)
PlantCode(FK)	DeptCode(FK)
DeptCode(FK)	SEmpName
SEmpName	SEmpDesig

E91/SAM_DEPT_SCH

SDProdPeriod	SDProdCap
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NOTES :	1 2 3 4 5 6 7 8 9 10		PUBLICATION		1	

E22/MATERIAL

MatCode
MatDescr
MatUnit
MatCost

is supplied by

E93/MATERIAL_SOURCE

MatCode(FK)
MatVenCode(FK)
MatSouPrice
MatSouRat
MatSouLead
MatSouHCode

n
is a

E31/MATERIAL_VENDOR

MatVenCode
MatVenName
MatVenAddr
MatVenCont
MatVenRatg

E81/COLOR

ColorCode
ColorBasic
ColorShade
ColorR
ColorG
ColorB

specifies the
color of

E34/MAT_VARIANT

MatCode(FK)
ColorCode(FK)
MatType

1.0
RMX13

USED AT	AUTHOR : Cidambi/Nott PROJECT : AMA_1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/19/89 REV :04/11/95 WORKING DRAFT RECOMMENDED PUBLICATION	READER DATE 0 1 2	CONTEXT
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E37 /TRIM

MatCode(FK)
ColorCode(FK)
TrimSize

E41 /ACCESSORY

MatCode(FK)
ColorCode(FK)
AccSize

O.O RMX42

can be a

MAT_TYPE



E39 /CLOSURE

MatCode(FK)
ColorCode(FK)
CloSize

E38 /TK_TAG_LABEL

MatCode(FK)
ColorCode(FK)
TTLText

E6 /FABRIC

MatCode(FK)
ColorCode(FK)
FabWidth

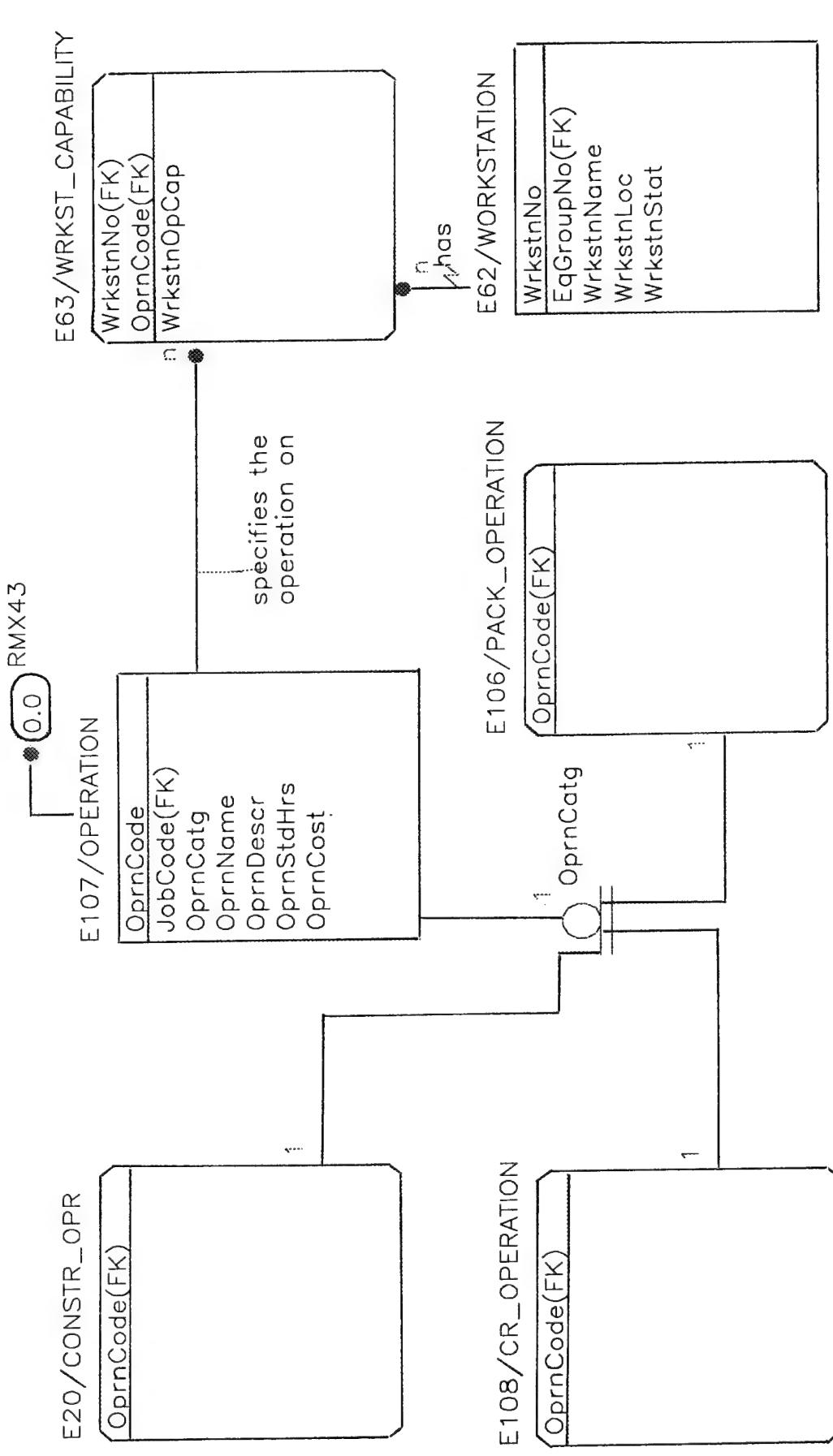
E40 /THREAD

MatCode(FK)
ColorCode(FK)
ThrCount

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NUMBER: RMX13

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	NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION				

0.0 RMX40

E107/OPERATION

OprnCode
JobCode(FK)
OprnCatg
OprnName
OprnDescr
OprnStdHrs
OprnCost

E113/SOURCE

SourceCode
OprnCode(FK)
SourceName
SourceLoc
SourceLead
SourceRating



—>\has



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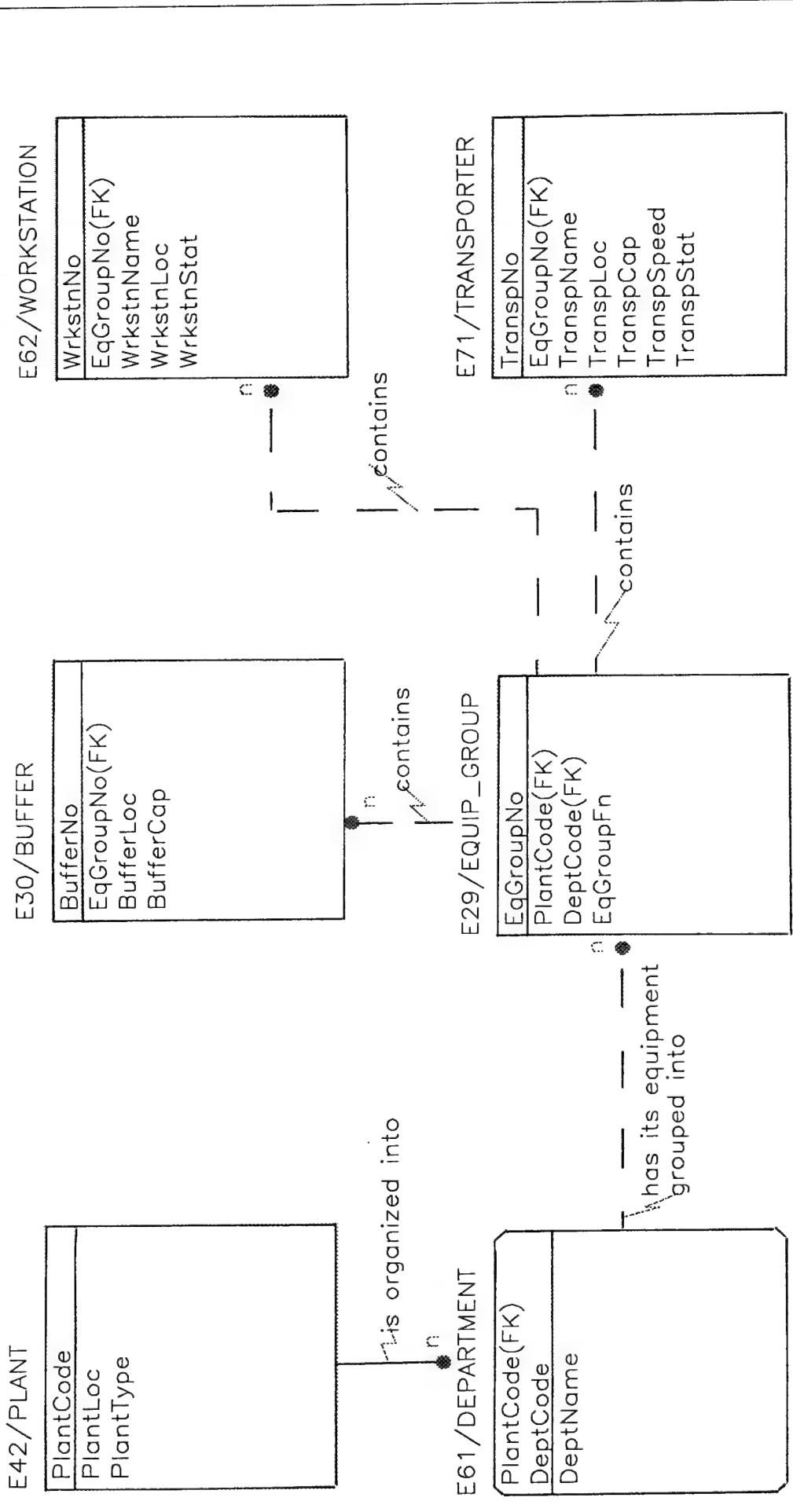
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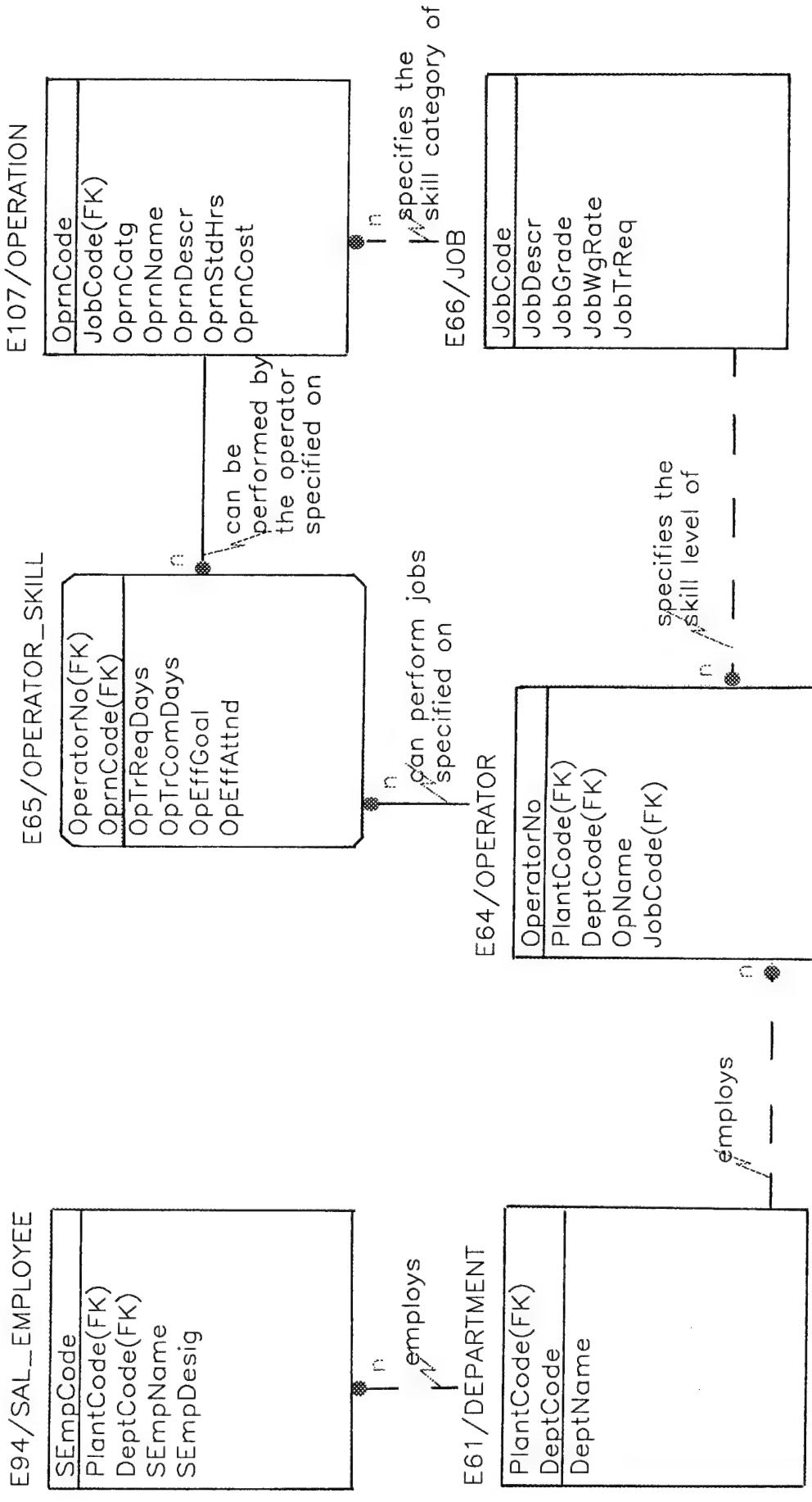
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NUMBER: RMX43

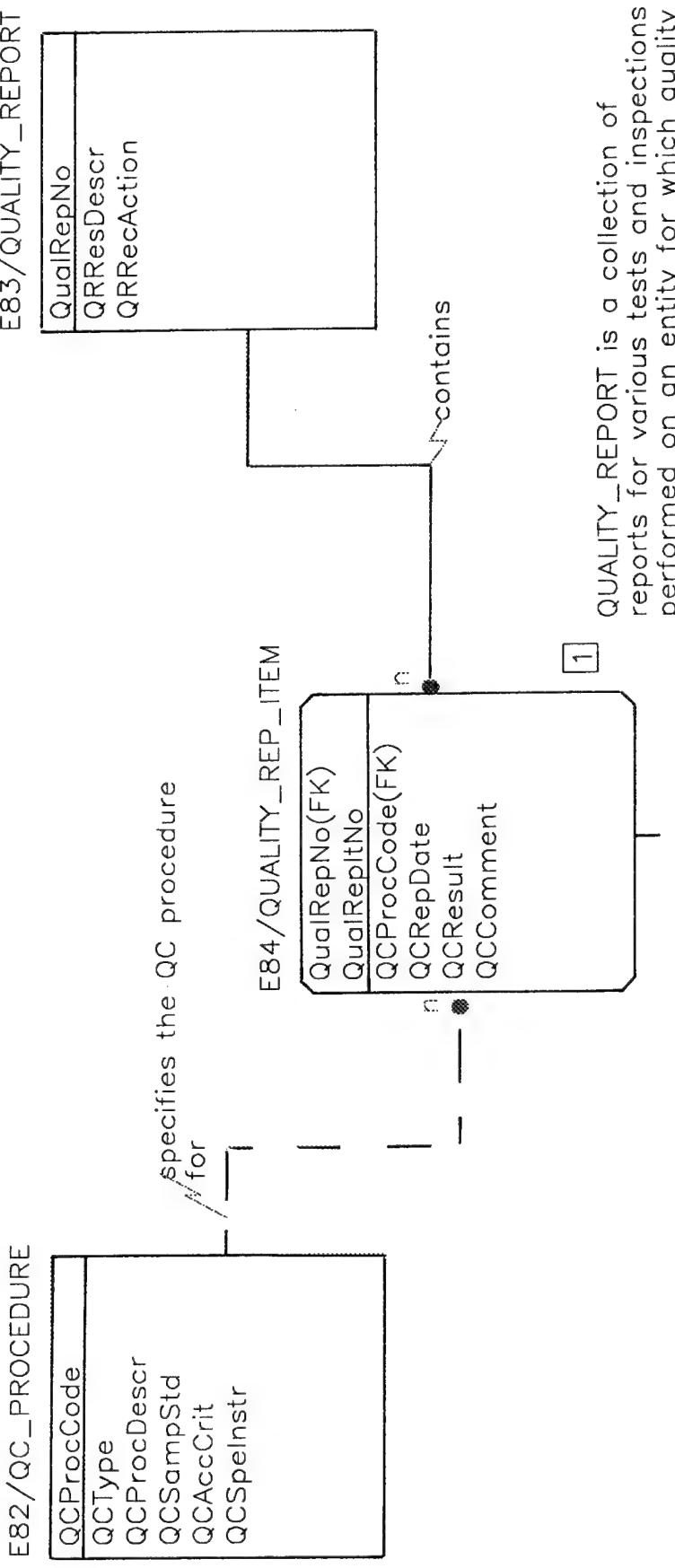
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CONTEXT			



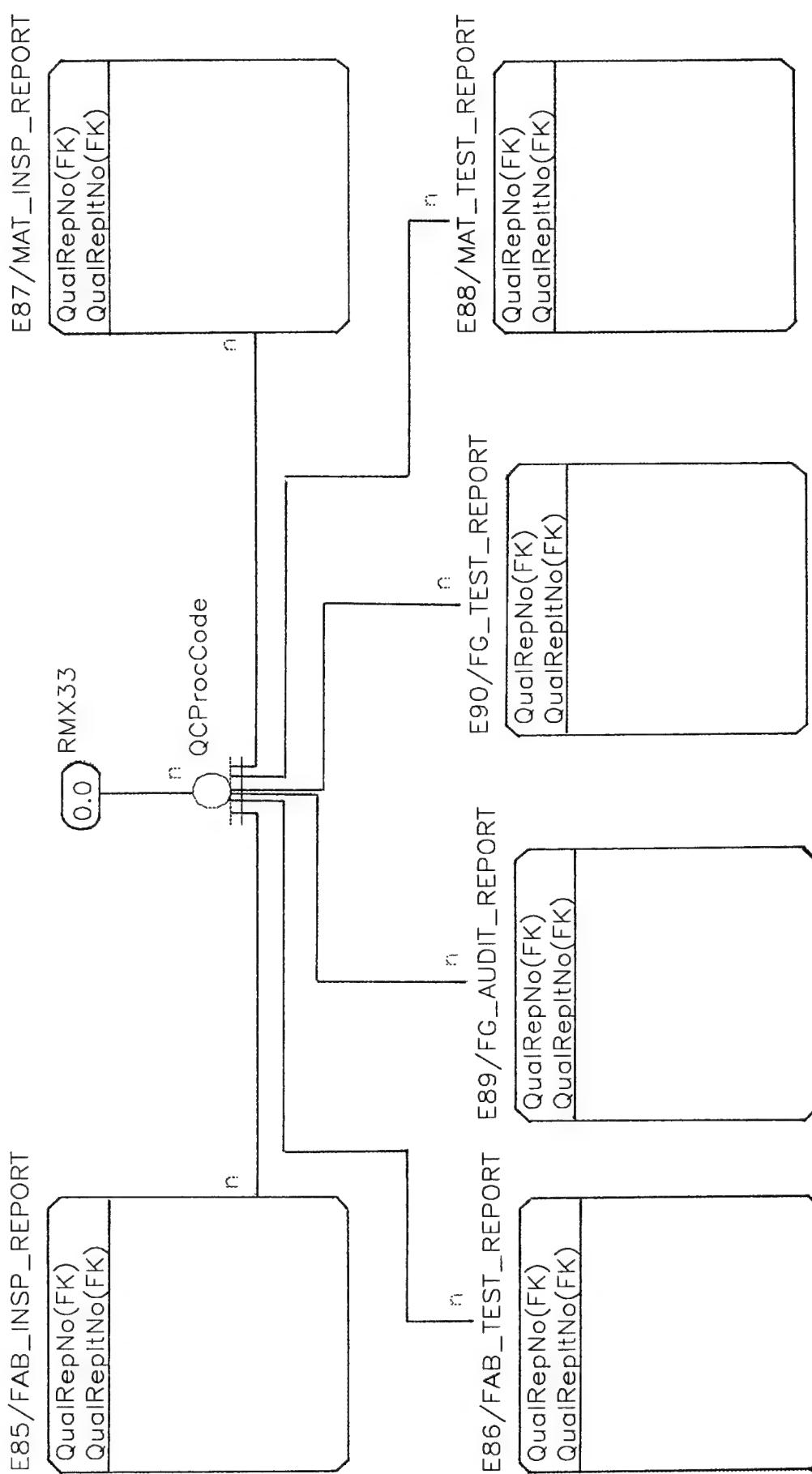
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				RECOMMENDED	10	1
				PUBLICATION		



QUALITY_REPORT is a collection of reports for various tests and inspections performed on an entity for which quality is of significance.

RMX34
1.0

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COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED			2
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NODE: apparel/F220-1 TITLE: Quality Control NUMBER: RMX34

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COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED			
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					10	1

E107/OPERATION

OpnCode
JobCode(FK)
OpnCatg
OpnName
OpnDescr
OpnStdHrs
OpnCost

E114/OP_REPORT

OpRepNo

E115/OP_REPORT_ITEM

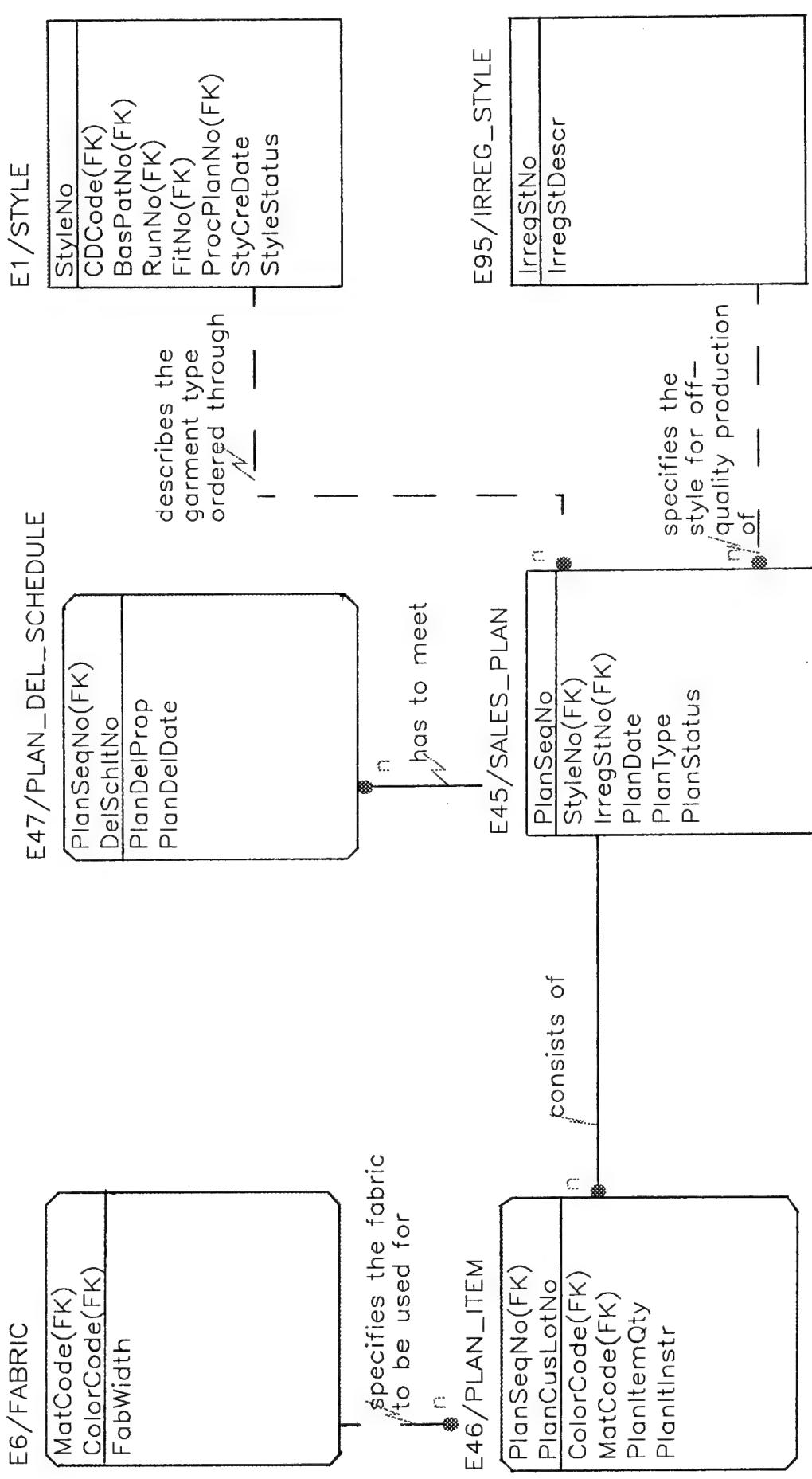
OpRepNo(FK)
OpRepItNo
OpnCode(FK)
OpRepDate
OpRepItComment

specifies the operation for

contains

1 OP_REPORT is a collection of reports for various activities carried out by each department in the enterprise. (e.g., cutting, sewing, etc.)

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NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION		

E45/SALES_PLAN

PlanSeqNo
StyleNo(FK)
IrregStNo(FK)
PlanDate
PlantType
PlanStatus

is assigned production
schedule as

E44/MASTER_SCHEDULE

PlantCode(FK)
ProdPeriod(FK)
PlanSeqNo(FK)
AssngdCap

specifies manufacturing
location on

E25/MASTER_SCHEDULE

ProdPeriod

n
is capable of
producing
features
specified on

E42/PLANT

PlantCode
PlantLoc
PlantType

n
can be produced
at plants
specified on

E43/PLANT_CAPACITY

PlantCode(FK)
ConFeaCode(FK)
ConFeaCap

E18/CONSTRAINT_FEATURE

ConFeaCode
ConFeaType
ConFeaVar
CFDescr

USED AT	AUTHOR : Cidambi/Nott	DATE: 7/19/89	X	WORKING	READER	DATE	CONTEXT
	PROJECT : AMA_V1.5	REV.: 04/13/95		DRAFT			
	COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED			10
	NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION			1

E46/PLAN_ITEM

PlanSeqNo(FK)
PlanCusLotNo
ColorCode(FK)
MatCode(FK)
PlanItemQty
PlanInstr

E28/GARMENT_TYPE

PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)

n
n

specifies the
size of

E7/SIZE

SizeCode
Waist
Inseam

NODE: apparel/F310-O

TITLE: Production Garment Description

NUMBER: RMX9

USED AT	AUTHOR : Cidambi/Nott	DATE: 8/21/89	X	WORKING	READER	DATE	CONTEXT
	PROJECT : AMA_1.5	REV. : 04/12/95		DRAFT			
	COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED			
	NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION			

E46/PLAN_ITEM

PlanSeqNo(FK)	
PlanCusLotNo	
ColorCode(FK)	
MatCode(FK)	
PlanItemQty	
PlanInstr	

has its associated
construction materials
specified as

E21/CONSTR_FT_MAT

CDCode(FK)	
ConFeaCode(FK)	
CFMatNo	
MatCode(FK)	
MatQty	

— — — — —
specifies the
usage of

E34/MAT_VARIANT

MatCode(FK)	
ColorCode(FK)	
MatType	

— — — — —
specifies
the material
on

E79/PLAN_MATERIAL

PlanSeqNo(FK)	
PlanCusLotNo(FK)	
PlanMatNo	
CDCode(FK)	
ConFeaCode(FK)	
CFMatNo(FK)	
MatCode(FK)	
ColorCode(FK)	

— — — — —
specifies
the material
on

USED AT	AUTHOR : Cidambi/Nott	DATE: 7/19/89	X WORKING	READER	DATE	CONTEXT
PROJECT : AMA-1.5		REV.:04/12/95	DRAFT			10
COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED			1
NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION			

E31/MATERIAL_VENDOR

MatVenCode
MatVenName
MatVenAddr
MatVenCont
MatVenRatg

E32/MAT_PURCHASE_ORDER

MatPONo
MatVenCode(FK)
n MatPODate
MatDelDate
MatAvailPer

receives

contains

E83/QUALITY_REPORT

QualRepNo
QRResDescr
QRRecAction

1.0 RMX12

E33/MAT_PO_ITEM

MatPONo(FK)
MatPOItemNo
n MatCode(FK)
ColorCode(FK)
QualRepNo(FK)
MatOrdQty
MatRecdQty
MatAccStat

contains the audit results of

n 1

1

E34/MAT_VARIANT

MatCode(FK)
ColorCode(FK)
MatType

is ordered as

NUMBER: RMX11

TITLE: Material Procurement

NODE: apparel/F320-0

USED AT	AUTHOR : Cidambi/Nott	DATE: 7/19/89	X WORKING	READER	DATE	CONTEXT
	PROJECT : AMA_V1.5	REV. :04/13/95	DRAFT		0	
	COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY		RECOMMENDED		1	
	NOTES : 1 2 3 4 5 6 7 8 9 10		PUBLICATION		2	

E36/MATERIAL_LOCATION

MatLocIndex
MLRowNo
MLShelfNo
MLTotalCap
MLType

0.0 RMX11

is stored as

E35/STORED_ITEM

StoItemNo
MatLocIndex(FK)
MatPONo(FK)
MatPOItemNo(FK)
n StoltOrigQty
n StoltRemQty
n StoltLocStat
n StoltAssgCap
ProdOrdNo(FK)

gives the storage location of

E48/PRODUCTION_ORDER

ProdOrdNo
ProgSeqNo(FK)
QualRepNo(FK)
MarkerNo(FK)
PrOCutDate
PrOReadyDate
PrOScale
PrOSpeInstr
PrOrdStat

is supplied raw material from

USED AT	AUTHOR : Cidambi/Nott PROJECT : AMA_1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/20/89 X WORKING REV.: 04/13/95 DRAFT RECOMMENDED PUBLICATION	READER DATE 10 1
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E45/SALES_PLAN

PlanSeqNo
StyleNo(FK)
IrregStNo(FK)
PlanDate
PlanType
PlanStatus

E48/PRODUCTION_ORDER

ProdOrdNo
PlanSeqNo(FK)
QualRepNo(FK)
MarkerNo(FK)
PrOCutDate
PrOReadyDate
PrOScale
PrOSpellstr
PrOrdStat

E83/QUALITY_REPORT

QualRepNo
QRResDescr
QRRecAction

is executed
through

n records the
quality audit
results for a

E51/MARKER

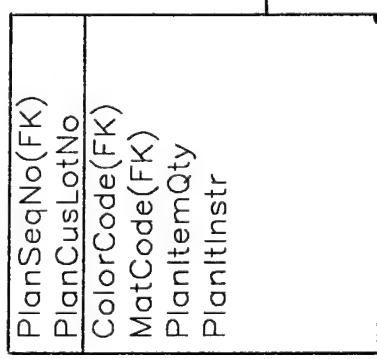
MarkerNo
MarkerWidth

is a set of scaled
sections for a

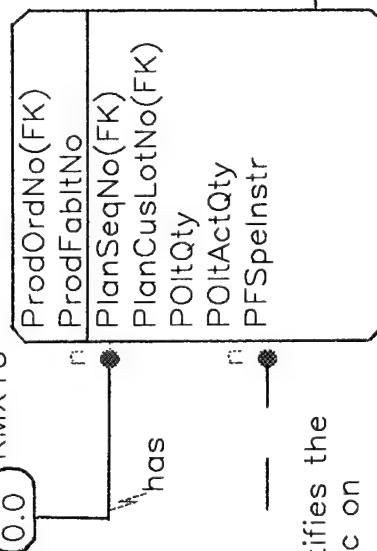
1.0 RMX17

USED AT	AUTHOR : Cidambi/Nott	DATE: 7/21/89	X WORKING	READER	DATE	CONTEXT
	PROJECT : AMA_1.5	REV. : 04/11/95	DRAFT	RECOMMENDED	0 11	
	COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			PUBLICATION	2	
NOTES :	1 2 3 4 5 6 7 8 9 10					

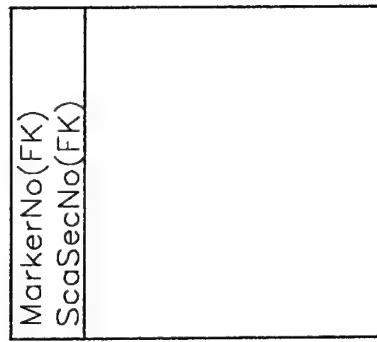
E46 / PLAN_ITEM



E50 / PROD_ORDER_ITEM

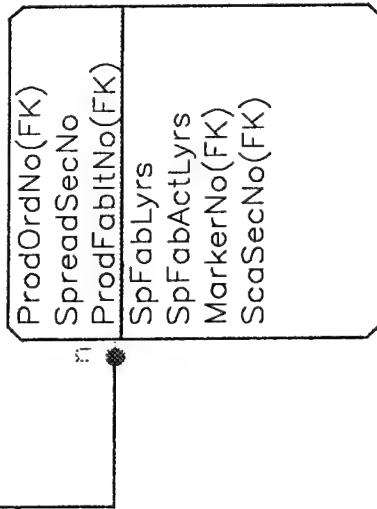


E53 / MARKER_SECTION



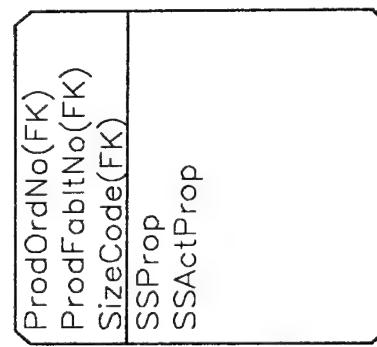
is spread for cutting as a template for cutting the

E98 / SPREAD_SECTION



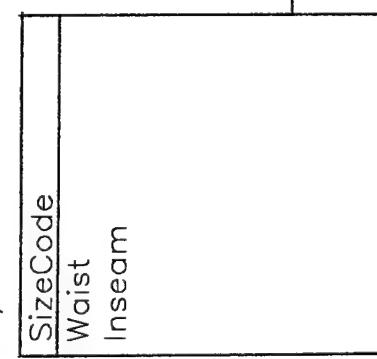
has its size distribution specified as

E49 / SIZE_SCALE

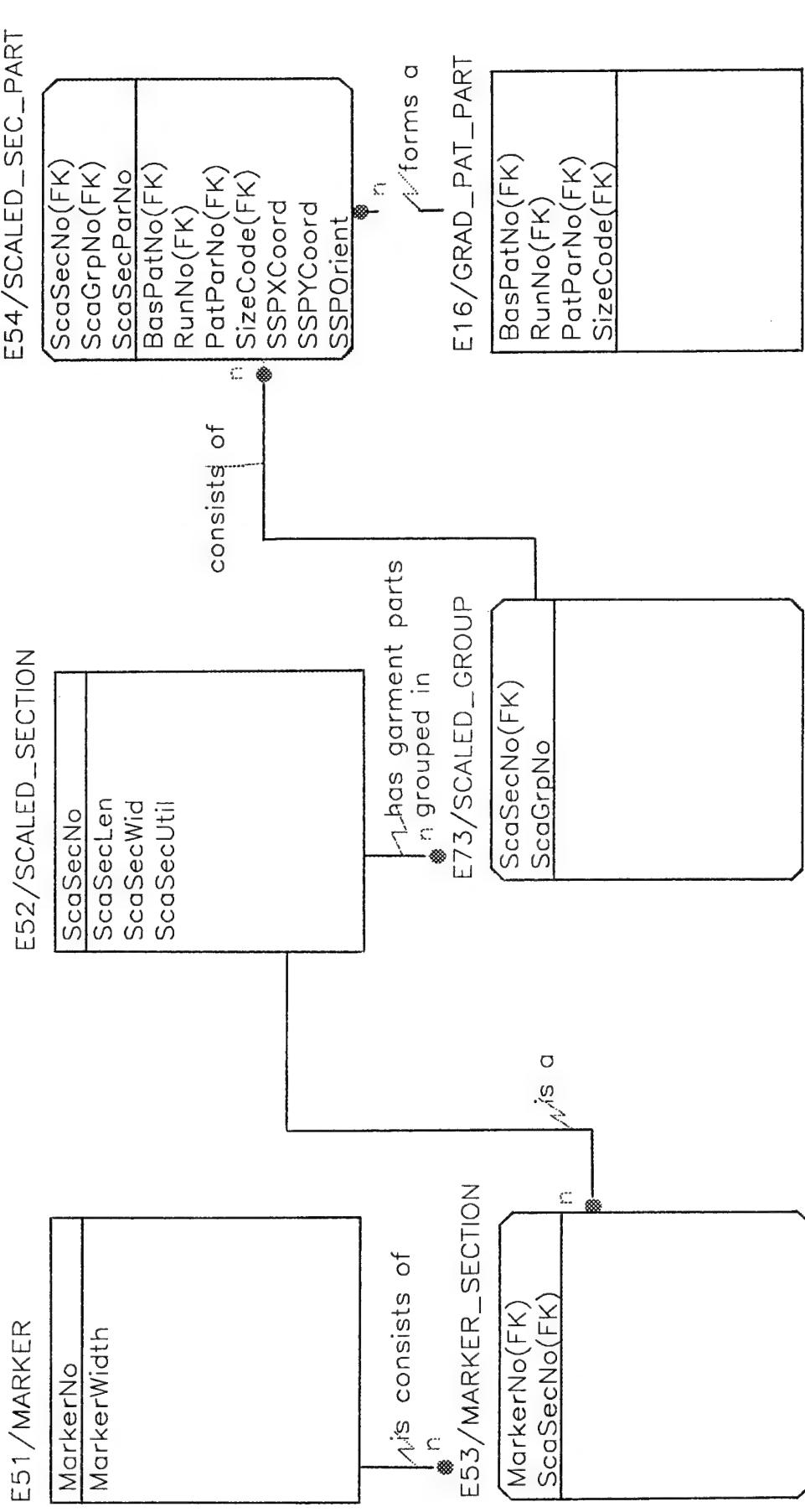


specifies the size on

E7 / SIZE



USED AT	AUTHOR : Cidambi/Nott PROJECT : AMA_V1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/21/89 REV.: 04/13/95 WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT 10 1
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NUMBER: RMX18

NODE: apparel/F405-0 TITLE: Marker Making

USED AT	AUTHOR : Cidambi/Nott	DATE: 7/26/89	X WORKING	READER	DATE	CONTEXT
PROJECT : AMA_1.5		REV.: 04/11/95	DRAFT			
COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED		10	
NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION		1	

E48 / PRODUCTION_ORDER

ProdOrdNo
PlanSeqNo(FK)
QualRepNo(FK)
MarkerNo(FK)
PrCutDate
PrOReadyDate
PrOScale
PrOSpeInstr
PrOrdStat

is scheduled for manufacturing on E76 / PLANT_SCHEDULE

E75 / PLANT_SCHEDULE

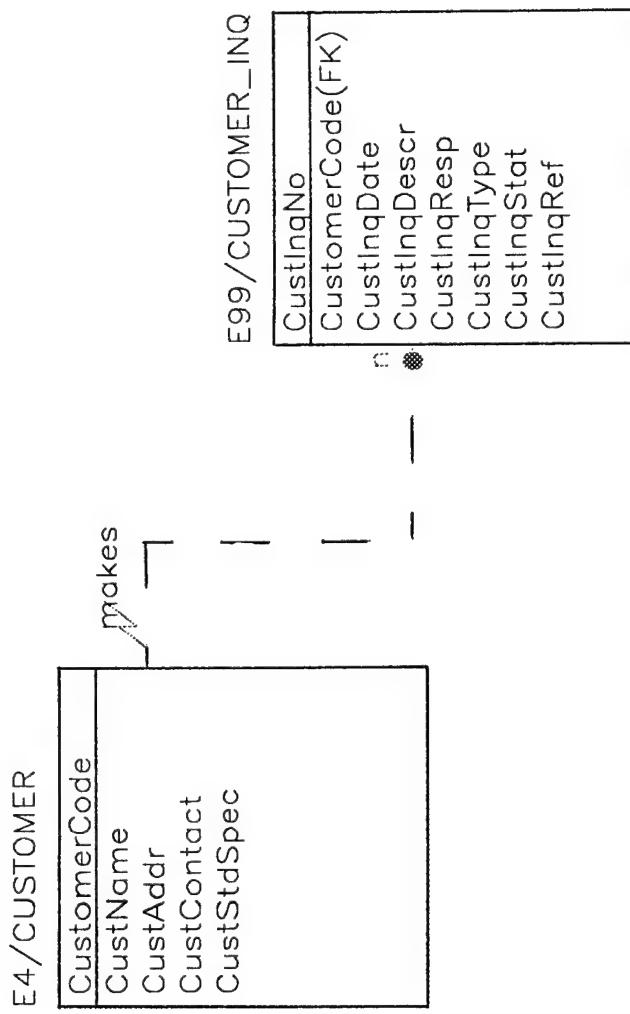
PlantCode(FK)
PIProdPeriod
PPSModDate
PPSModPer
PPSCap

has

✓ manufactures according to E42 / PLANT

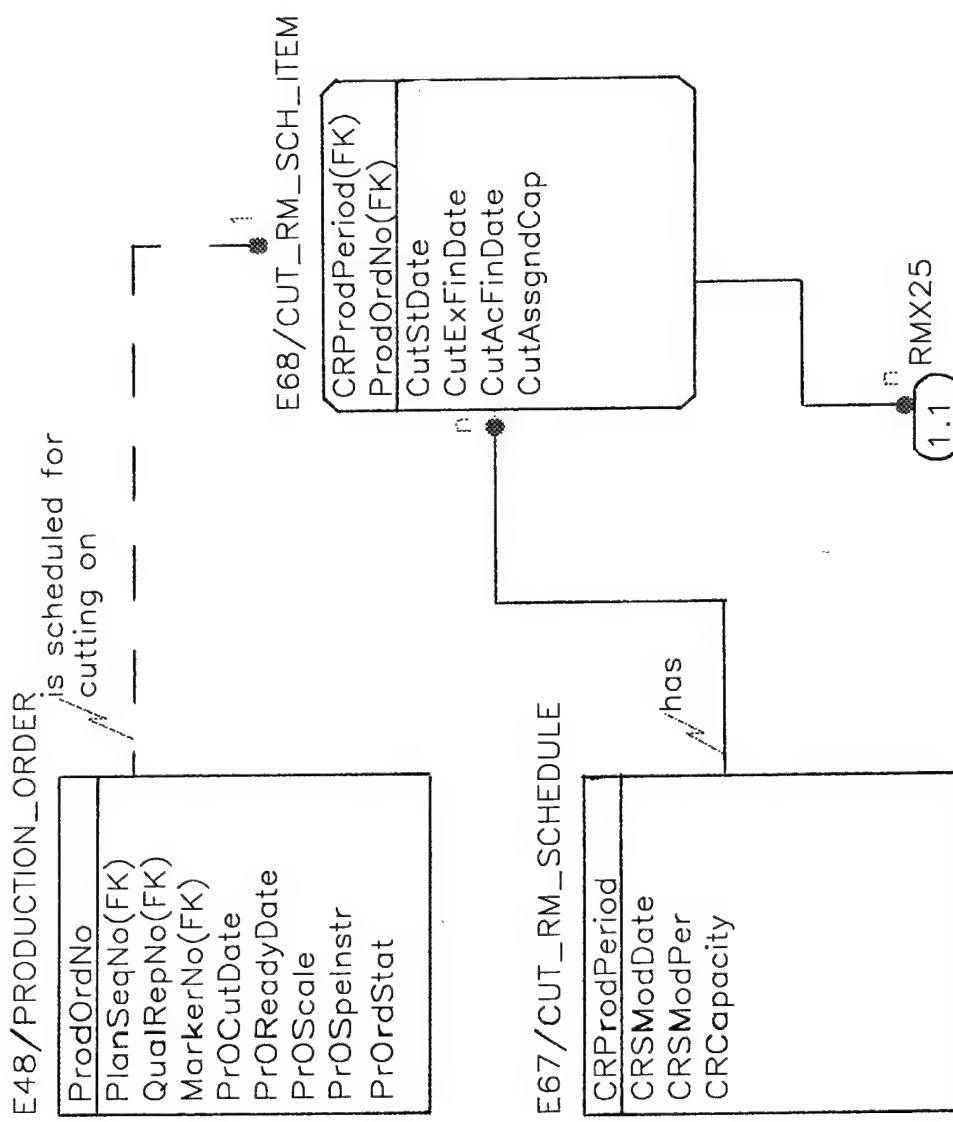
PlantCode
PlantLoc
PlantType

USED AT	AUTHOR : Cidambi/Nott	DATE: 10/04/89	X	WORKING	READER	DATE	CONTEXT
	PROJECT : AMA_1.5	REV. : 04/11/95		DRAFT			
	COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED			
	NOTES : X 2 3 4 5 6 7 8 9 10			PUBLICATION			10

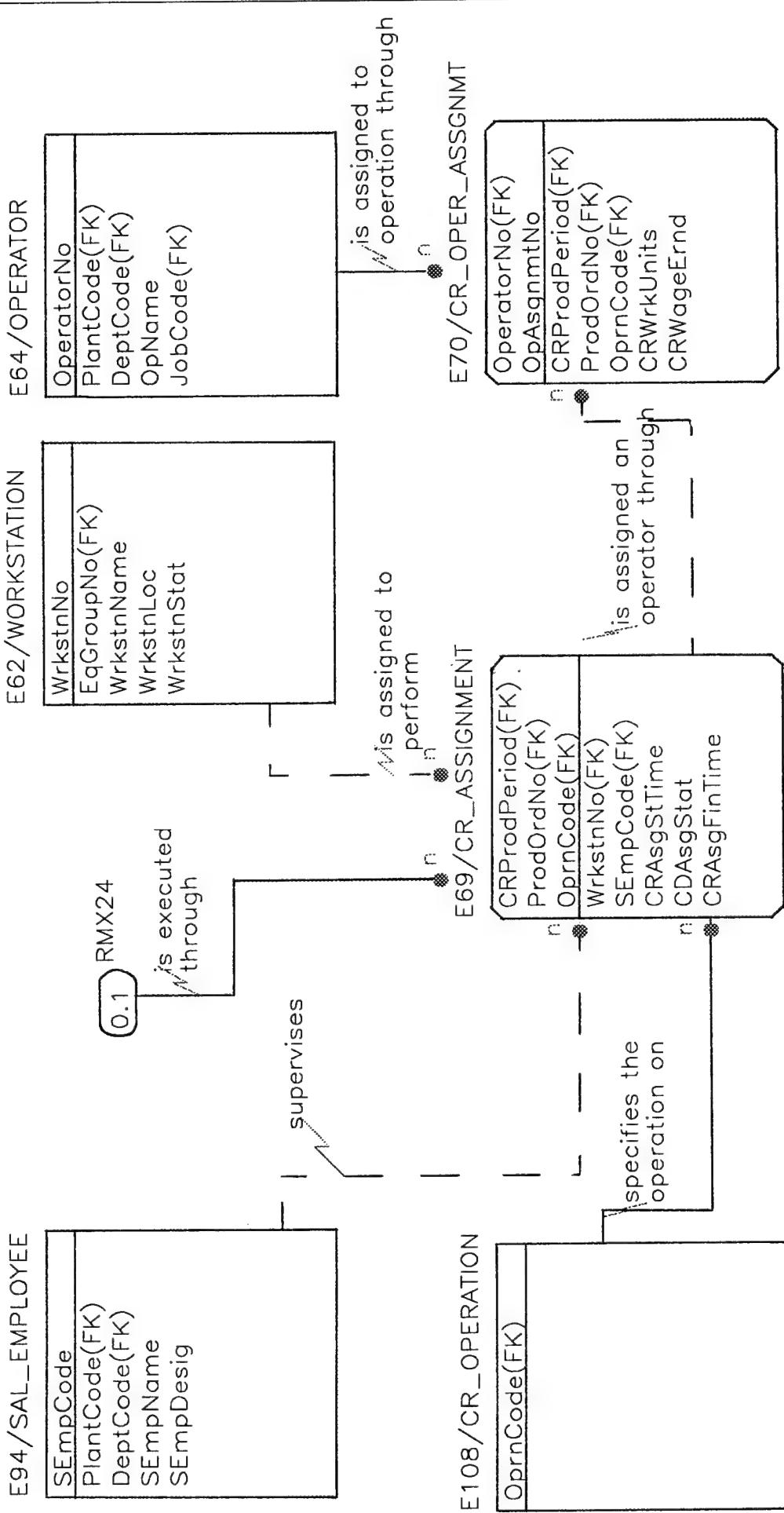


1) Attributes CustInqDescr and CustInqResp contain free format information (e.g., ascii text without any particular format).

USED AT	AUTHOR : Cidambi/Nott	DATE: 7/25/89	X WORKING	READER	DATE	CONTEXT
PROJECT : AMA_1.5		REV. : 04/12/95	X DRAFT			
COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			X RECOMMENDED			
NOTES : 1 2 3 4 5 6 7 8 9 10			X PUBLICATION			
					10	
					1	



USED AT	AUTHOR : Cidambi/Nott PROJECT : AMA_1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/26/89 X WORKING REV.: 04/12/95 DRAFT RECOMMENDED PUBLICATION	READER DATE O 1 2	CONTEXT
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USED AT	AUTHOR : Cidamibi/Nott	DATE: 7/26/89	X WORKING	READER	DATE	CONTEXT
PROJECT : AMA_1.5		REV.:04/11/95	DRAFT			
COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED		10	
NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION		1	

ScaSecNo(FK)
ScaGrpNo

E100/GAR_SUBASSEMBLY

ProdOrdNo(FK)
GarUnitNo(FK)
ProcStatCode(FK)
ScaSecNo(FK)
ScaGrpNo(FK)
GarSubLoc

E26/PROCESS_STATE

ProcStatCode

specifies the processing state of

ProdOrdNo(FK)
GarUnitNo(FK)
ProcStatCode(FK)
ScaSecNo(FK)
ScaGrpNo(FK)
GarSubLoc

E28/GARMENT_TYPE

PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)

specifies the type of

ProdOrdNo(FK)
GarUnitNo
FGCartonNo(FK)
PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)
GarUnitGrade

E78/GARMENT_UNIT

ProdOrdNo(FK)
GarUnitNo
FGCartonNo(FK)
PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)
GarUnitGrade

specifies the type of

ProdOrdNo
PlanSeqNo(FK)
QualRepNo(FK)
MarkerNo(FK)
PrCutDate
PrReadyDate
PrOScale
PrSpelInstr
PrOrdStat

E48/PRODUCTION_ORDER

PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)

specifies the type of

ProdOrdNo(FK)
GarUnitNo
FGCartonNo(FK)
PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)
GarUnitGrade

E72/SCALED_GROUP

ProdOrdNo(FK)
GarUnitNo
FGCartonNo(FK)
PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)
GarUnitGrade

specifies the type of

PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)

E26/PROCESS_STATE

ProcStatCode

specifies the processing state of

ProdOrdNo(FK)
GarUnitNo
ProcStatCode(FK)
ScaSecNo(FK)
ScaGrpNo(FK)
GarSubLoc

E100/GAR_SUBASSEMBLY

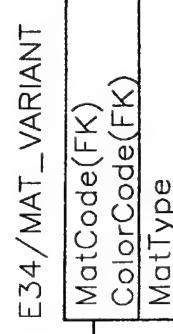
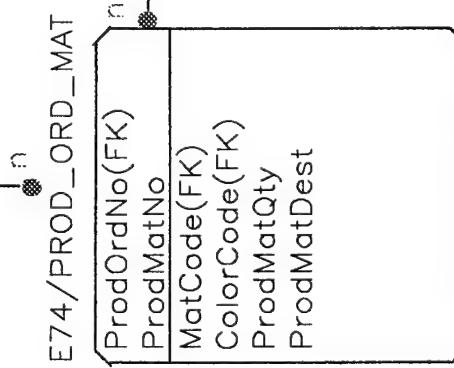
ProdOrdNo(FK)
GarUnitNo
ProcStatCode(FK)
ScaSecNo(FK)
ScaGrpNo(FK)
GarSubLoc

specifies the processing state of

USED AT	AUTHOR : Cidambi/Nott	DATE: 7/26/89	X WORKING	READER	DATE	O
	PROJECT : AMA_1.5	REV.: 04/12/95	DRAFT			1
COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED			2
	NOTES : 1 2 3 4 5 6 7 8 9 10		PUBLICATION			

is produced from

O.O RMX26



USED AT	AUTHOR : Cidambri/Nott PROJECT : AMA_1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/26/89 X WORKING REV.: 04/11/95 DRAFT RECOMMENDED PUBLICATION	READER DATE 10 1	CONTEXT
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E94 / SAL_EMPLOYEE

SEmpCode	PlantCode(FK)	PIProdPeriod(FK)	ProdOrdNo(FK)	EqGroupNo(FK)	SEmpName	SEmpDesig
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E77 / ASSIGNED_EQUIP

1.0 RMX30	PlantCode(FK)	PIProdPeriod(FK)	ProdOrdNo(FK)	EqGroupNo(FK)	SEmpCode(FK)	SEmpName	SEmpDesig	supervises

E29 / EQUIP_GROUP

EqGroupNo	PlantCode(FK)	DeptCode(FK)	EqGroupFn
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is reserved for
use as

is operated by

E76 / PLANT_SCH_ITEM

PlantCode(FK)	PIProdPeriod(FK)	ProdOrdNo(FK)

is produced on

E73 / ASSIGNED_OPER

OperatorNo(FK)	PlantCode(FK)	PIProdPeriod(FK)	ProdOrdNo(FK)	EqGroupNo(FK)

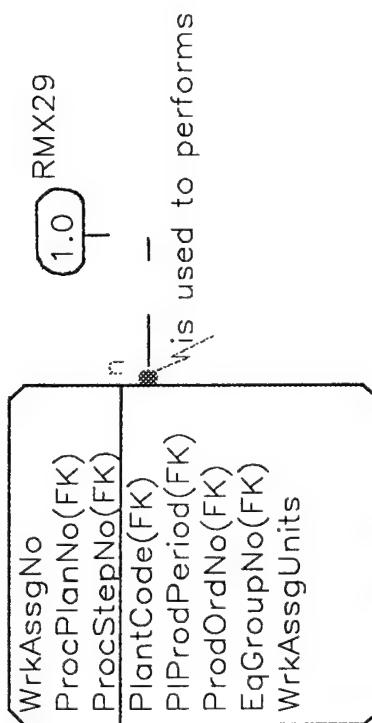
is assigned to
operate the
equipment as

E64 / OPERATOR

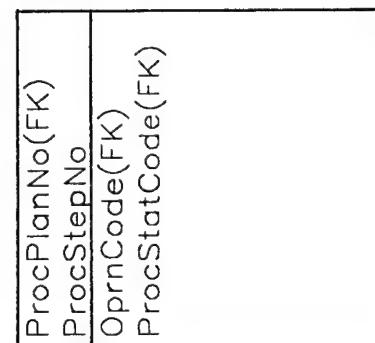
OperatorNo	PlantCode(FK)	DeptCode(FK)	OpName	JobCode(FK)
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USED AT	AUTHOR : Cidambi/Nott	DATE: 7/27/89	X WORKING	READER	DATE	O CONTEXT
	PROJECT : AMA_V1.5	REV.:04/13/95	DRAFT			1
	COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY		RECOMMENDED			2
	NOTES : 1 2 3 4 5 6 7 8 9 10		PUBLICATION			

E81 / WORK_ASSIGNMENT



E24 / PROCESS_STEP



USED AT	AUTHOR : Cidambri/Nott PROJECT : AMA_1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/21/89 X WORKING REV.: 04/11/95 DRAFT RECOMMENDED PUBLICATION	READER	DATE 10 1
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E48 / PRODUCTION_ORDER

ProdOrdNo	is associated with goods on
PlanSeqNo(FK)	
QualRepNo(FK)	
MarkerNo(FK)	
PrCutDate	
PrReadyDate	
PrScale	
PrSpelnstr	
PrOrdStat	

E55 / MANIFEST

ManifestNo	is a list of
ProdOrdNo(FK)	
FGStoLocNo(FK)	

E78 / GARMENT_UNIT

ProdOrdNo(FK)	contains
GarUnitNo	
FGCartonNo(FK)	
PlanSeqNo(FK)	
PlanCusLotNo(FK)	
SizeCode(FK)	
GarUnitGrade	

specifies storage location for goods

E56 / FG_STORAGE_LOC

FGStoLocNo	
FGStoRowNo	
FGStoRacNo	
FGStoCap	

E57 / FG_CARTON

FGCartonNo	
ManifestNo(FK)	
FGCarQty	
FGCarGrade	
FGCarLocStat	
ConsShOrdNo(FK)	

1.0 RMX20

USED AT	AUTHOR : Cidambi/Nott PROJECT : AMA_1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 7/24/89 REV. :04/11/95 WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	O CONTEXT 11 2
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E96/IRREG_FG_CARTON

FGCartonNo(FK)
IrregStNo(FK)

specifies the irregular
garment style for
E95/IRREG_STYLE

E97/REG_FG_CARTON

FGCartonNo(FK)
PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)

specifies the
type of garments in
E28/GARMENT_TYPE

E97/REG_FG_CARTON

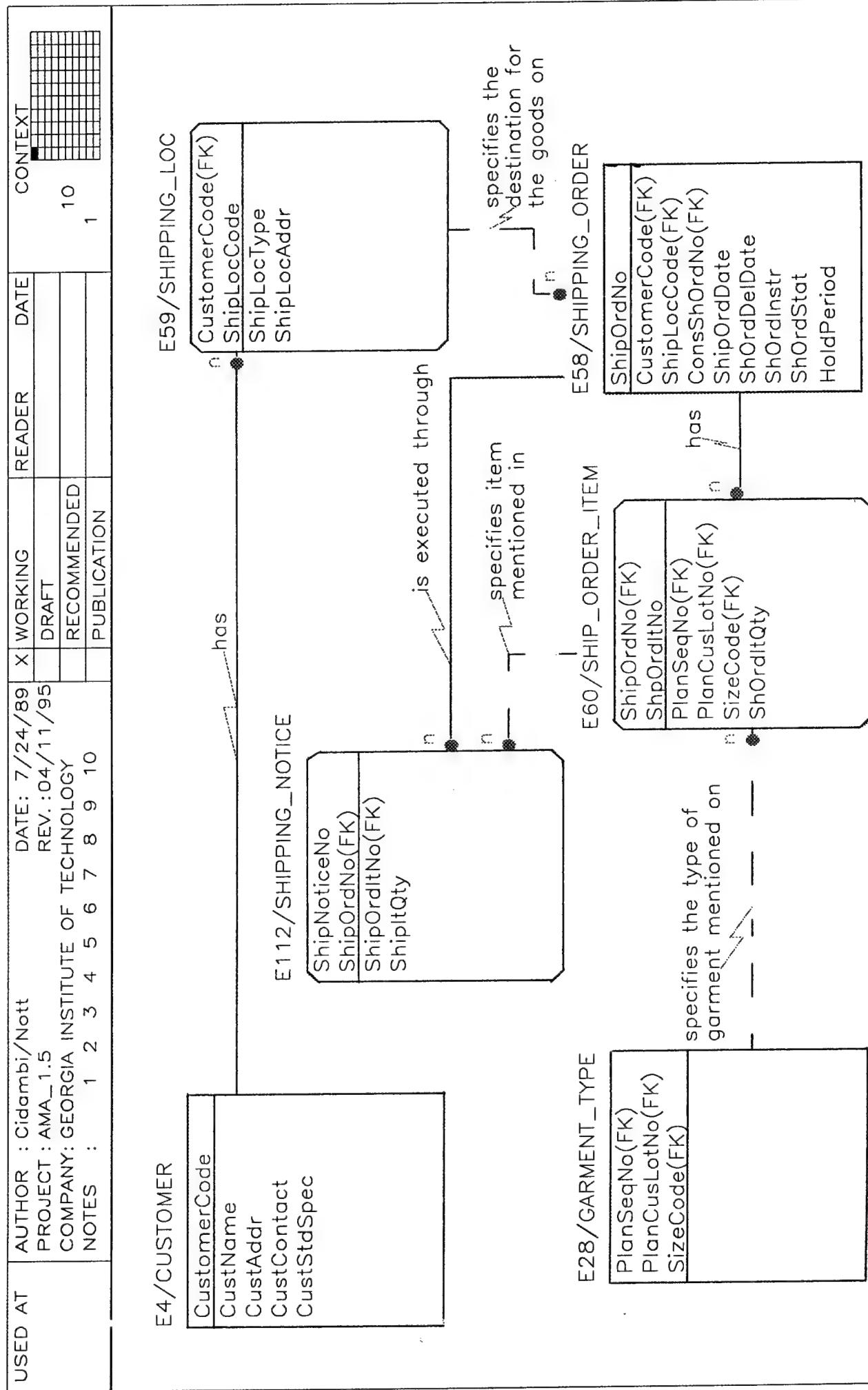
FGCartonNo(FK)
PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)

PlanSeqNo(FK)
PlanCusLotNo(FK)
SizeCode(FK)

NODE: apparel/F600-1

TITLE: Finished Goods Warehousing

NUMBER: RMX20



USED AT	AUTHOR : Cidamibi/Nott PROJECT : AMA_V1.5 COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY NOTES : 1 2 3 4 5 6 7 8 9 10	DATE: 10/06/89 REV. : 04/13/95 RECOMMENDED PUBLICATION	WORKING DRAFT READER DATE	10 1
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E58/SHIPPING_ORDER

ShipOrdNo	CustomerCode(FK)
	ShipLocCode(FK)
	ConsShOrdNo(FK)
	ShipOrdDate
	ShOrdDelDate
	ShOrdInstr
	ShOrdStat
	HoldPeriod

is a collection
of similar

E102/CONS_SHIP_ORDER

ConsShOrdNo	ManifestNo(FK)
	CShOrdStat

is packed using

garments from

is a sequence
of

E55/MANIFEST

ManifestNo	ProdOrdNo(FK)
	FGStoLocNo(FK)

provides the
source for goods
to be packed for a

E103/PACK_SCHEDULE

PkSPPeriod	PkSModDate
	PkSCapacity
	PkSModPer

is scheduled for
packing through

PkSPPeriod(FK)	ConsShOrdNo(FK)
	PkSIStDate
	PkSIExFnDate
	PkSIAcFnDate
	PkSIAssgnCap

1.0
RMX39

E57/FG_CARTON

FGCartonNo	ManifestNo(FK)
	FGCarQty
	FGCarGrade
	FGCarLocStat
	ConsShOrdNo(FK)

USED AT	AUTHOR : Cidambi/Nott	DATE: 10/06/89	X WORKING	READER	DATE	CONTEXT
PROJECT : AMA_1.5		REV.: 04/11/95	DRAFT		0	
COMPANY: GEORGIA INSTITUTE OF TECHNOLOGY			RECOMMENDED		1	
NOTES : 1 2 3 4 5 6 7 8 9 10			PUBLICATION		2	

E62/WORKSTATION

WrkstnNo	
EqGroupNo(FK)	
WrkstnName	
WrkstnLoc	
WrkstnStat	

E104/PACK_ASSIGNMENT

PkSPeriod(FK)	
ConsShOrdNo(FK)	
OpnCode(FK)	
WrkstnNo(FK)	
SEmpCode(FK)	
PkOpnStTime	
PkOpnFnTime	
PkOpnStat	

RMX38

0.0 is executed through

E105/PACK_OP_ASSGNMT

OperatorNo(FK)	
PkOpAssqNo	
PkSPeriod(FK)	
ConsShOrdNo(FK)	
OpnCode(FK)	
PkWrkUnits	
PkWageEnd	

is assigned an operator through

E104/PACK_ASSIGNMENT

SEmpCode(FK)	
PlantCode(FK)	
DeptCode(FK)	
OpName	
JobCode(FK)	

is assigned to operations through

OperatorNo	
PlantCode(FK)	
DeptCode(FK)	
OpName	
JobCode(FK)	

E104/SAL_EMPLOYEE

SEmpCode	
PlantCode(FK)	
DeptCode(FK)	
SEmpName	
SEmpDesig	

supervises operations through

OpnCode(FK)	
PlantCode(FK)	
DeptCode(FK)	
OpName	
JobCode(FK)	

specifies the operation on

Section II

Definition of terms used in the Information Model

DEFINITIONS OF TERMS USED IN THE INFORMATION MODEL

1 STYLE	2 FIT	3 CONSTR_DETAIL
<p><i>Style</i> describes the style of the garments for manufacturing. Each garment style is developed for a particular customer.</p> <p><u>Primary Key Attributes</u></p>	<p><i>Fit</i> is a collection of vital measurements associated with various sizes of garments to be produced.</p> <p><u>Primary Key Attributes</u></p>	<p><i>Construction Detail</i> describes the construction features for the garment style (e.g. style and position of front pocket) and the materials required for each of these features (e.g., type of pocket trim).</p>
<p>StyleNo: <i>Style Number</i> is the identification number for the style.</p> <p><u>Non-key Attributes</u></p>	<p>FitNo: <i>Fit Number</i> is the identification number of the fit.</p> <p><u>Non-key Attributes</u></p>	<p><u>Primary Key Attributes</u></p>
<p>CDCode: FK CONSTR_DETAIL (3).</p>	<p>GraTabNo: FK GRADE_TABLE (11).</p>	<p><u>CDCode: Model Number</u> is the identification number for the construction detail.</p>
<p>BasPatNo: FK BASE_PATTERN (13).</p>	<p>MeasInstr: <i>Measuring Instructions</i> are the instructions provided with the fit regarding measurements. The pattern maker uses these instructions to measure the pattern.</p>	<p><u>Non-key Attributes</u></p>
<p>RunNo: FK PATTERN (14).</p>		<p>CDCreator: <i>Construction Detail Creator</i> is the person who creates the detail.</p>
<p>FitNo: FK FIT (2).</p>		<p>CDCreDate: <i>Construction Detail Creation Date</i> is the date on which the detail is created.</p>
<p>ProcPlanNo: FK PROCESS_PLAN (23).</p>	<p>FitStatus: <i>Fit Status</i> is a status attribute that is used to track the development of a fit.</p>	<p>CDStatus: <i>Construction Detail Status</i> is the status attribute that is used to track the development of a CD.</p>
<p>StyleCreDate: <i>Style Creation Date</i> is the date on which the style is created.</p>		
	<p>StyleStatus: <i>Style Status</i> is the status used to track the development of a style.</p>	

4 CUSTOMER

Customer is the party for whom the garments are manufactured.

Primary Key Attributes

CustomerCode: *Customer Code* is the identification code for the customer.

Non-key Attributes

CustName: *Customer Name* is the name of the customer.

CustAddr: *Customer Address* is the contact address of the customer.

CusContact: *Customer Contact Person* is the person designated by the customer to deal with the enterprise.

CustStdSpec: *Customer's Standard Specifications* are the specifications on garments that apply to all the garments supplied to that customer. MIL standards are an example of such specifications.

5 SAM_PROD_ASSGNMT

Sample Production Assignment is the work assigned to an employee in the sample production department to produce garments for a sample request.

Primary Key Attributes

SDProdPeriod: FK SAM_DEPT_SCH (91).

SDSchItNo: FK SAM_DEPT_SCH_ITEM (92).

SEmpCode: FK SAL_EMPLOYEE (94).

Non-key Attributes

None

6 FABRIC

Fabric identifies each distinct type of fabric used in garment manufacturing. Fabrics are distinguished from each other by their weave, material, weight and color.

Primary Key Attributes

MatCode: FK MATERIAL (22).

ColorCode: FK COLOR (81).

Non-key Attributes

FabWidth: *Fabric Width* is the width of the fabric.

7 SIZE**8 SAMPLE_REQ**

Size specifies the size of a garment. The size of trousers is specified by the waist and inseam measurement (e.g. 32/32, 32M, etc.)

Primary Key Attributes

SizeCode: *Size Code* is a code assigned to each size of the garment. For trousers, there is a unique size code for each waist and inseam combination.

Non-key Attributes

Waist: *Waist* is the measurement of a trouser at the waist.

Inseam: *Inseam* is the inseam length of a trouser.

9 SAM_REQ_ITEM

Sample Request is a request sent by the customer for sample garments. Each request can be used to obtain samples of various types.

Primary Key Attributes

SReqNo: *Sample Request Number* is a serial number assigned to each request for samples received from the customers.

Non-key Attributes

StyleConceptNo: FK *STYLE_CONCEPT* (109).

QualRepNo: FK *QUALITY_REPORT* (83).

SDelDate: *Sample Request Date* is the date on which the sample request is received.

SamQty: *Sample Quantity* is the quantity of sample item requested.

SActDelDate: *Sample Actual Delivery Date* is the date on which the samples are actually delivered.

SSpeInstr: *Sample Special Instructions* are the special instructions sent by the customer for preparing samples. For example, the customer may specify how the samples have to be packed, shipped, etc.

SReqStat: *Sample Request Status* is the completion status of a sample request.

10 MEASUREMENT

Measurement is a collection of vital measurements associated with each **size** in a fit. For example, seat, bottom, knee and outer seam measurements for size 32/32 in a particular fit.

Primary Key Attributes

FitNo: FK FIT (2).

SizeCode: FK SIZE (7).

Non-key Attributes

Seat; Seat Measurement is the measurement of a trouser of a particular size and fit at its seat.

Rise; Rise Measurement is the measurement of a trouser's seat seam.

Knee; Knee Measurement is the measurement of a trouser leg's width at the knee.

Bottom; Bottom Measurement is the measurement of a trouser leg's bottom opening.

11 GRADE_TABLE

Grade Table is a collection of rules for grading a pattern of one size of garment to obtain the patterns for different-sized garments.

Primary Key AttributesGraTabNo: FK GRADE_TABLE (11).

GraTabNo: Grade Table Number is the number assigned to each grade table in use for pattern grading.

SizeCode: FK SIZE (7).Non-key AttributesSizeCode: FK SIZE (7).

GraTabStat: Grade Table Status is the status attribute that is used to track the development of a grade table.

DisplX: Displacement along X Axis is the displacement of the grade point along X Axis.

DisplY: Displacement along Y Axis is the displacement of the grade point along Y Axis.

12 GRADE_RULE

Grade Rule is the rule for grading a pattern to obtain a pattern for a particular size.

Primary Key AttributesGraPointNo: FK GRADE_TABLE (11).

GraPointNo: Grade Point Number is the point marked on the pattern to which the rule applies.

SizeCode: FK SIZE (7).Non-key Attributes

13 BASE_PATTERN	14 PATTERN	15 PATTERN_PART
<p>Base Pattern is the basic template for generating a pattern for a garment style. A base pattern roughly conforming to the shape of the garment style is selected and modified to obtain the pattern for that style.</p> <p><u>Primary Key Attributes</u></p> <p>BasPatNo: <i>Base Pattern Number</i> is the identification number assigned to each basic garment pattern used for making patterns.</p> <p><u>Non-key Attributes</u></p> <p>BasPatDesc: <i>Base Pattern Description</i> is a brief description of the garment type for which the pattern may be used. For example, men's baggy trousers.</p> <p>BasPatStatus: <i>Base Pattern Status</i> is a status attribute that is used to track the development of a new base pattern.</p>	<p><i>Pattern</i> is a collection of shapes for the parts of a garment style. Pattern is usually standardized for a particular size. Exact shapes for each size in the style are obtained by grading the pattern.</p> <p><u>Primary Key Attributes</u></p> <p>BasPatNo: FK BASE_PATTERN (13).</p> <p><u>Non-key Attributes</u></p> <p>BasPatNo: FK BASE_PATTERN (13).</p> <p>RunNo: <i>Run Number</i> is the identification number assigned to each modification of the base pattern. Base patterns are modified to obtain patterns for particular fit and style.</p> <p>PatAvYard: <i>Pattern's Average Yardage</i> is the average area of the pattern. This figure is used to estimate fabric requirements of styles using this pattern.</p> <p>PatStatus: <i>Pattern Status</i> is the status attribute that is used to track the development of a new pattern.</p>	<p><i>Pattern Part</i> is the shape associated with each part of the garment style. For example, shape of the front left leg panel of a trouser.</p> <p><u>Primary Key Attributes</u></p> <p>BasPatNo: FK PATTERN (14).</p> <p><u>Non-key Attributes</u></p> <p>PatParNo: <i>Pattern Part Number</i> is the identification number assigned to each part in a pattern.</p> <p>PatParName: <i>Pattern Part Name</i> is the descriptive name for each pattern part.</p> <p>PatParShape: <i>Pattern Part Shape</i> is the description (a bitmap) of part's shape in computer format.</p>

16 GRAD_PAT_PART	17 CONSTR_DET_ITEM	18 CONSTR_FEATURE
<p><i>Graded Pattern Part</i> is a pattern part graded for a particular size of garment.</p> <p><u>Primary Key Attributes</u></p> <p>BasPatNo: FK BASE_PATTERN (13).</p> <p>RunNo: FK PATTERN (14).</p> <p>PatParNo: FK PATTERN_PART (15).</p> <p>SizeCode: FK SIZE (7).</p> <p><u>Non-key Attributes</u></p> <p>CDItDescr: <i>Construction Detail Item Description</i> is the description of the construction feature specific to the construction detail. The details that are not provided with the description of the generic feature are provided here. For example, in the feature offset front pocket, the offset measurement is not provided in the feature description; it is specific to a particular construction detail and is provided here.</p>	<p><i>Construction Detail Item</i> is a line item on CONSTR_DETAIL (3) for specifying the construction feature.</p> <p><u>Primary Key Attributes</u></p> <p>CDCode: FK CONSTR_DETAIL (3).</p> <p>ConFeaCode: FK CONSTR_FEATURE (18).</p> <p><u>Non-key Attributes</u></p> <p>CDItDescr: <i>Construction Detail Item Description</i> is the description of the construction feature specific to the construction detail. The details that are not provided with the description of the generic feature are provided here. For example, in the feature offset front pocket, the offset measurement is not provided in the feature description; it is specific to a particular construction detail and is provided here.</p>	<p><i>Construction Feature</i> is a design style of a particular aspect of a garment. Each feature is identified by its generic type and the variation in styling of this generic type. For example, back pockets are a generic feature on a trouser and possible variations are with flap, with button, with button and flap, etc.</p> <p><u>Primary Key Attributes</u></p> <p>ConFeaCode: <i>Construction Feature Code</i> is the ID code of a feature.</p> <p><u>Non-key Attributes</u></p> <p>ConFeatType: <i>Construction Feature Type</i> identifies the basic type of the construction feature. For example, trouser back pockets, trouser waistband, etc.</p> <p>ConFeaVar: <i>Construction Feature Variation</i> identifies the variation of the construction feature type. For example, one of the variation of the feature type trouser back pocket is a patch pocket with double seams.</p>
		<p><i>Construction Feature Description</i> is the description of the general description of the feature. Specific information, e.g. the size and the position of the back pocket are not provided here, but are left to the description of an instance of the feature (see CDItDescr in CONSTR_DET_ITEM (17)).</p>

19 CONSTR_FT_ITEM

Construction Feature Item is a line item on CONSTR_FEATURE (18) specifying the construction operation associated with production of a particular feature. Typically, construction of a feature involves more than one basic construction operation.

Primary Key Attributes

ConFeaCode: FK CONSTR_FEATURE (18).

OpnCode: FK OPERATION (107).

Non-key Attributes

CFitQty: *Construction Feature Item Quantity* is gives the number of times a particular operation has to be performed to produce the feature (This value is required for costing which is done by summing up the costs of construction operations involved).

20 CONSTR_OPR

Construction Operation is a basic production operation in the manufacture of garments. Sewing the seat seam on a dress trouser and attaching the label to back pocket are examples of construction operations. Each construction operation has a cost associated with it (costing for a garment style is done by summing up the cost of materials, fabric and all the construction operations involved). It is a category of entity OPERATION (107).

Primary Key Attributes

OpnCode: FK OPERATION (107).

Non-key Attributes

CFitQty: *Construction Feature Item Quantity* is gives the number of times a particular operation has to be performed to produce the feature (This value is required for costing which is done by summing up the costs of construction operations involved).

21 CONSTR_FT_MAT

Construction Feature Material is the construction material required to produce a particular garment feature. For example, constructing a waistband on a trouser requires a particular type of waistbanding trim. Since construction detail is a generic description for a style, the materials that are dependent on fabric color are specified in FAB_DEPNDT_MAT (79).

Primary Key Attributes

CDCode: FK CONSTR_DETAIL (3).

ConFeaCode: FK CONSTR_FEATURE (18).

CFMatNo: *Construction Feature Material Number* is the serial number of the material item.

Non-key Attributes

MatCode: FK MATERIAL (22).

MatQty: *Construction Material Quantity* is the quantity of construction material required for the feature.

22 MATERIAL

Material is the generic category of materials that go into garment construction. Examples of such materials are trim, closures, labels, etc.

Primary Key Attributes

MatCode: *Material Code* is the identification code assigned to each material.

Non-key Attributes

MatDesc: *Construction Material Description* is the descriptive name for the material.

MatUnit: *Material Unit* is the unit (yard, pound, count, etc.) used to measure the material.

MatCost: *Material Cost* is the standard cost associated with a material.

23 PROCESS_PLAN

Process Plan is a sequence of construction operations involved in the manufacture of a garment style.

Primary Key Attributes

ProcPlanNo: *Process Plan Number* is the identification number assigned to each process plan.

Non-key Attributes

None

24 PROCESS_STEP

Process Step is a step in the process plan sequence that transforms the state of a garment sub-assembly.

Primary Key Attributes

ProcPlanNo: *FK PROCESS_PLAN* (23).

ProcStepNo: *Process Step Number* is the sequence number of an operation in the process plan.

Non-key Attributes

OpmCode: *FK OPERATION* (107).

ProcStatCode: *FK PROCESS_STATE* (26).

25 MASTER_SCHEDULE	26 PROCESS_STATE	27 PROC_INPUT_STAT
<p><i>Master Schedule</i> is the long-term manufacturing schedule for the enterprise. On this schedule available production capacities in each plant are assigned to various sales plans. It is used for estimating materials requirements for any period and for other manufacturing planning activities.</p> <p><u>Primary Key Attributes</u></p> <p><i>ProdPeriod: Production Period</i> is a period (e.g., a week) which is the basis for planning.</p> <p><u>Non-key Attributes</u></p> <p><i>None</i></p>	<p><i>Process State</i> is the state of a garment sub-assembly that results when an operation (process step) is performed on that sub-assembly. Each step requires the sub-assemblies to be in a particular state.</p> <p><u>Primary Key Attributes</u></p> <p><i>ProcStatCode: Process State Code</i> is the code that identifies the state achieved by a garment sub-assembly as a result of a process step being performed.</p> <p><u>Non-key Attributes</u></p> <p><i>None</i></p>	<p><i>Process Input State</i> is a set of states required as an input for a process step.</p> <p><u>Primary Key Attributes</u></p> <p><i>ProcPlanNo: FK PROCESS_PLAN</i> (23).</p> <p><i>ProcStepNo: FK PROCESS_STEP</i> (24).</p> <p><u>ProcStatCode: FK PROCESS_STATE</u> (26).</p> <p><u>Non-key Attributes</u></p> <p><i>None</i></p>

28 GARMENT TYPE

Garment Type is an identity for each distinct type of garment in the warehouse. Each type is identified by the plan, fabric type and size.

Primary Key Attributes

PlanSeqNo: FK SALES_PLAN (45).

PlanCusLotNo: FK PLAN_ITEM (46).

SizeCode: FK SIZE(7).

Non-key Attributes

None

29 EQUIP_GROUP

Equipment Group is a collection of production equipment that is used together. A unit production system or a module can be viewed as a group. All the workstations in a group are assigned to a job together.

Primary Key Attributes

Primary Key Attributes

PlantCode: FK PLANT (42).

DeptCode: FK DEPARTMENT (61).

EqGroupNo: FK EQUIP_GROUP (29).

Non-key Attributes

EqGroupNo: *Equipment Group Number* is a number identifying a particular line or a module.

EqGroupFn: *Equipment Group Function* is the function performed by a line or a module, e.g.,

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EqGroupFn: *Equipment Group Function* is the function performed by a line or a module, e.g.,

Non-key Attributes

None

30 BUFFER

Buffer is a storage location in the production area that can hold garment sub-assemblies temporarily between operations.

Primary Key Attributes

BufferNo: *Buffer Number* is a number identifying a particular buffer in a group.

Non-key Attributes

EqGroupNo: FK EQUIP_GROUP (29).

EqGroupFn: *Equipment Group Function* is the function performed by a line or a module, e.g.,

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31 MATERIAL_VENDOR	32 MAT_PURCHASE_ORDER	33 MAT_PO_ITEM
<p><i>Material Vendor</i> is a suppliers for material such as trim, threads, accessories, tickets, tags and labels.</p> <p><u>Primary Key Attributes</u></p>	<p><i>Material Purchase Order</i> is a purchase order sent out to a material vendor to procure one or more types of materials.</p> <p><u>Primary Key Attributes</u></p>	<p><i>Material Purchase Order Item</i> is a line item on the MAT_PURCHASE_ORDER (32) providing the details of material ordered and the desired quantity.</p> <p><u>Primary Key Attributes</u></p>
<p>MatVenCode: <i>Material Vendor Code</i> is the identification code assigned to each vendor of construction materials.</p> <p><u>Non-key Attributes</u></p>	<p>MatPONo: <i>Material Purchase Order Number</i> is the identification number assigned to each purchase order.</p> <p><u>Non-key Attributes</u></p>	<p>MatPOItemNo: <i>Material Purchase Order Item Number</i> is the serial number an item on the purchase order.</p> <p><u>Non-key Attributes</u></p>
<p>MatVenName: <i>Material Vendor's Name</i> is the name for the material vendor.</p>	<p>MatVenCode: FK MATERIAL_VENDOR (31).</p>	<p>MatPODate: <i>Material Purchase Order Date</i> is the date on which the purchase order is issued.</p>
<p>MatVenAddr: <i>Material Vendor's Address</i> is the contact address of the vendor.</p>		<p>MatDelDate: <i>Material Delivery Date</i> is the date on which the materials are delivered.</p>
<p>MatVenCont: <i>Material Vendor's Contact</i> is the contact person of the vendor with whom the enterprise deals.</p>		<p>MatAvailPer: <i>Material Availability Period</i> is the production period for which the material is ordered.</p>
<p>MatVenRatg: <i>Material Vendor's Rating</i> is the performance rating of the vendor.</p>		
		<p>MatRecdQty: <i>Received Material Quantity</i> is the quantity of material finally received. This may be less than the ordered quantity if a part of the shipment is rejected during quality audit.</p>
		<p>MatAccStat: <i>Material Acceptance Status</i> specifies whether the material has been accepted or rejected after the quality audit.</p>

34 MATERIAL_VARIANT*Material Variant* is a material of a specific color.Primary Key Attributes**MatCode:** FK CONSTR_MATERIAL (22).**ColorCode:** FK COLOR (81).Non-key Attributes*None***35 STORED_ITEM**

Stored Item is a unit of received material that is stored in the material warehouse. This unit may be a bolt of fabric or a carton containing a specific quantity of a trim item.

MatLocIndex: FK MATERIAL_LOCATION (36).

StoItemNo: *Stored Item No* is a number identifying a stored item.

Non-key Attributes**MatPONo:** FK MAT_PURCHASE_ORDER (32).**MatPOItemNo:** FK MAT_PO_ITEM (33).

StoItOrigQty: *Original Stored Item Quantity* is the original quantity in the unit.

StoItRemQty: *Remaining Stored Item Quantity* is the currently available quantity in the unit.

StoItLocStat: *Stored Item's Location Status* is the code indicating the current location of the item. The item may be in warehouse or temporarily removed to the shopfloor.

StoItAssgCap: *Assigned Storage Capacity* is the storage capacity assigned to the item. Since the cartons may be of varied sizes, the capacity assigned to each may be different.

ProdOrdNo: FK PRODUCTION_ORDER(48).**36 MATERIAL_LOCATION**

Material Location is the storage location for material batches in the raw materials warehouse. Each location is a rack. The racks are arranged in aisles.

Primary Key Attributes

MatLocIndex: *Material Location Index* is the identification code assigned to each storage location in the material warehouse.

Non-key Attributes

MLRowNo: *Material Location Row Number* is the aisle number of the storage location.

MLShelfNo: *Material Location Shelf Number* is the shelf number of the location.

MLType: *Material Location Type* specifies what kind of materials can be stored in the location. For example, cartons, fabric bolts, etc.

MLTotalCap: *Material Storage Location's Capacity* is the maximum storage capacity of that location.

37 TRIM	<p><i>Trim</i> is a generic name for pre-assembled fabric components such as pockets, waistbands, linings, etc.</p>
	<p><u>Primary Key Attributes</u></p>
	<p>MatCode: FK MATERIAL (22).</p>
	<p>ColorCode: FK COLOR (81).</p>
	<p><u>Non-key Attributes</u></p>
	<p>TrimSize: <i>Trim Size</i> is the size of pocket, waistband, etc.</p>
	<p>TTLText: <i>Ticket-tag-label</i> is the content of the TTL item.</p>
38 TK_TAG_LABEL	<p><i>Tickets-Tags-Labels (TTL)</i> are tickets, labels and hang-tags that are sewn, stapled or hung on the garments. These items provide information about the garments to the consumers.</p>
	<p><u>Primary Key Attributes</u></p>
	<p>MatCode: FK MATERIAL (22).</p>
	<p>ColorCode: FK COLOR (81).</p>
	<p><u>Non-key Attributes</u></p>
	<p>CloSize: <i>Closure Size</i> is the size of zipper, buttons, etc.</p>
	<p>TTLText: <i>Ticket-tag-label</i> is the content of the TTL item.</p>
39 CLOSURE	<p><i>Closures</i> are items such as buttons, zippers, hooks, etc.</p>
	<p><u>Primary Key Attributes</u></p>
	<p>MatCode: FK MATERIAL (22).</p>
	<p>ColorCode: FK COLOR (81).</p>
	<p><u>Non-key Attributes</u></p>
	<p></p>

40 THREAD

Thread is the sewing thread used for assembling the garments.

Primary Key Attributes

MatCode: FK MATERIAL (22).

ColorCode: FK COLOR (81).

Non-key Attributes

ThrCount: *Thread Count* is the count of the thread item.

41 ACCESSORY

Accessories are items such as belts, buckles, hangers and poly-bags that go with the garment, but are not an integral part of it.

Primary Key Attributes

MatCode: FK MATERIAL (22).

ColorCode: FK COLOR (81).

Non-key Attributes

AccSize: *Accessory Size* is the size of belt, bag, etc.

42 PLANT

Plant is a manufacturing facility for cutting, sewing and finishing activities. A plant may perform any one or more of these activities.

Primary Key Attributes

PlantCode: *Plant Code* is the identification code assigned to each manufacturing plant.

Non-key Attributes

PlantLoc: *Plant Location* is the place where the plant is located.

PlantType: *Plant Type* is a code indicating the type of the plant, e.g., sewing only, sewing & finishing, etc.

43 PLANT_CAPACITY

Plant capacity is the installed capacity of a plant to make a particular garment feature specified by CONSTR_FEATURE (18). For example, capacity per week to make dress trouser back pockets with buttoned flaps.

Primary Key Attributes

PlantCode: FK PLANT (42).

ConFeaCode: FK CONSTR_FEATURE (18).

Non-key Attributes

ConFeaCap: *Construction Feature Capacity* is the manufacturing capacity of the plant for a particular feature.

44 MASTER_SCH_ITEM

Master Schedule Item is a sales plan scheduled for production on the master schedule.

Primary Key Attributes

PlantCode: FK PLANT (42).

ProdPeriod: FK PLANT_CAPACITY (43).

PlanSeqNo: FK SALES_PLAN (45).

Non-key Attributes

AssngdCap: *Assigned Capacity* is the available capacity assigned to the sales plan.

45 SALES_PLAN

Sales Plan is an agreement with a customer for supplying garments of a particular style according to a delivery schedule desired by the customer. Although the tentative decision on fabric types is conveyed on a sales plan, the distribution of sizes is left for a latter time.

Primary Key Attributes

PlanPLANSeqNo: *Plan Sequence Number* is the serial number assigned to the sales plan.

Non-key Attributes

StyleNo: FK STYLE (1).

IrregStNo: FK IRREG_STYLE (95).

PlanDate: *Plan Date* is the date on which the plan is initiated.

PlanType: *Plan Type* is a code indicating whether the plan is a new plan or a rebuy order.

PlanStatus: *Plan Status* is a status attribute that is used to track the development of a sales plan.

46 PLAN_ITEM

Plan Item is a line item on a SALES_PLAN (45) specifying the quantity of garment units ordered for each fabric type.

Primary Key Attributes

PlanSeqNo: FK SALES_PLAN (45).

PlanCusLotNo: *Plan Customer Lot Number* is a lot number assigned by the customer to garments of each distinct fabric in the plan.

Non-key Attributes

MatCode: FK MATERIAL (22).

ColorCode: FK COLOR (81).

PlanItemQty: *Plan Item Quantity* is the quantity of the item ordered.

PlanItInstr: *Plan Item Special Instructions* are the special instructions about the item provided by the customer.

47 PLAN_DEL_SCHEDULE

Plan Delivery Schedule is a line item on a SALES_PLAN (45) specifying the dates by which certain quantities of goods are expected to be ready for delivery.

Primary Key Attributes

PlanSeqNo: FK SALES_PLAN (45).

PlanSeqNo: FK SALES_PLAN (45).

PlanCusLotNo: *Delivery Schedule Item Number* is the serial number of the item on plan delivery schedule.

Non-key Attributes

MatCode: FK MATERIAL (22).

ColorCode: FK COLOR (81).

PlanDelProp: *Plan Delivery Proportion* is the quantity of garments to be delivered, expressed as a fraction of the total quantity ordered.

PlanDelDate: *Plan Delivery Date* is the date by which the garments have to be ready for delivery.

ProdOrdNo: *Production Order Number* is the serial number assigned to the production order.

Non-key Attributes

PlanSeqNo: FK SALES_PLAN (45).

QualRepNo: FK QUALITY_REPORT (83).

MarkerNo: FK MARKER (51).

PrOCutDate: *Production Order Cut date* is the date by which the fabric for the production order should be cut.

48 PRODUCTION_ORDER

Production Order is an order issued to manufacturing plants to produce garments. Exact number, fabric type and size distribution are specified. Various other pieces of information required to determine what exactly is to be produced are also provided.

ProdOrdStat: *Production Order Status* specifies the status of processing of the order. The status is updated after the completion of each processing phase. Cutting, sewing, finishing, Receiving in the warehouse and stocking are examples of processing phases through which the order goes.

49 SIZE_SCALE	<p>Size Scale is the quantity of garments to be produced in a particular size. This quantity may be specified as a fraction of the total quantity mentioned on the production order.</p> <p><u>Primary Key Attributes</u></p> <p>ProdOrdNo: FK PRODUCTION_ORDER (48).</p> <p>ProdFabItNo: FK PROD_ORDER_ITEM (50).</p> <p>SizeCode: FK SIZE (7).</p> <p><u>Non-key Attributes</u></p> <p>SSProp: Size Scale Proportion is the relative quantity for a size in the size scale.</p> <p>SSActProp: Size Scale Actual Proportion is the proportion achieved after actually cutting the fabric. This proportion may be different than desired if inexact quantity of fabric is cut.</p>	<p>50 PROD_ORDER_ITEM</p> <p><i>Production Fabric</i> is the fabric required for producing the garments specified on the PRODUCTION_ORDER (48). Each production order may require more than one fabric. The fabric is of a particular type, color and width as specified by FABRIC_LOT (28).</p> <p><u>Primary Key Attributes</u></p> <p>ProdOrdNo: FK PRODUCTION_ORDER (48).</p> <p>ProdFabItNo: FK PROD_ORDER_ITEM (50).</p> <p><u>Non-key Attributes</u></p> <p>ProdFabItNo: <i>Production Fabric Item Number</i> is the serial number of the fabric item on the order.</p>	<p>51 MARKER</p> <p><i>Marker</i> is an overlay for spread fabric which serves as a template for cutting.</p> <p><u>Primary Key Attributes</u></p> <p>MarkerNo: <i>Marker Number</i> is the identification number of the marker.</p> <p><u>Non-key Attributes</u></p> <p>MarkerWidth: <i>Marker Width</i> is the width of the marker.</p> <p><u>Non-key Attributes</u></p> <p>PlanSeqNo: FK SALES_PLAN (45).</p> <p>PlanCusLotNo: FK PLAN_ITEM (46).</p> <p>POItQty: <i>ProductionOrder Item Quantity</i> is the number of garments to be produced for this item.</p> <p><u>Non-key Attributes</u></p> <p>POItActQty: <i>Production Order Item Actual Quantity</i> is the quantity actually cut.</p>
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52 SCALED_SECTION	53 MARKER_SECTION	54 SCALED_SEC_PART
<p><i>Scaled Section</i> is an arrangement of scaled pattern parts for one or more sizes of garments in a rectangle of a particular size. Scaled sections of same width can be combined to make a marker.</p> <p><u>Primary Key Attributes</u></p> <p>Primary Key Attributes</p> <p>MarkerNo: FK MARKER (51).</p> <p>SeaSecNo: FK SCALED_SECTION (52).</p> <p><u>Non-key Attributes</u></p> <p>SeaSecNo: <i>Scaled Section Number</i> is the identification number assigned to each scaled section.</p> <p><u>Non-key Attributes</u></p> <p>None</p>	<p><i>Marker Section</i> is a line item on MARKER (51) specifying the relative position of a scaled section in a marker.</p> <p><u>Primary Key Attributes</u></p> <p>MarkerNo: FK MARKER (51).</p> <p>SeaSecNo: FK SCALED_SECTION (52).</p> <p><u>Non-key Attributes</u></p> <p>None</p>	<p><i>Scaled Section Part</i> is a graded pattern part that appears on a scaled section. Each scaled section part is located on the scaled section at a particular position and has a particular orientation.</p> <p><u>Primary Key Attributes</u></p> <p>SeaSecNo: FK SCALED_SECTION (52).</p> <p>SeaGrpNo: FK SCALED_GROUP (72).</p> <p>SeaSecParNo: <i>Scaled Section Part Number</i> is the identification number for the part in the section.</p> <p><u>Non-key Attributes</u></p> <p>BasPathNo: FK BASE_PATTERN (13).</p> <p>RunNo: FK PATTERN (14).</p> <p>PatParNo: FK PATTERN_PART (15).</p> <p>SizeCode: FK SIZE (7).</p> <p>SSPXCoord: <i>Scaled Section Part's X Coordinate</i> is the position of the part on the X axis of the section.</p> <p>SSPYCoord: <i>Scaled Section Part's Y Coordinate</i> is the position of the part on the Y axis of the section.</p> <p>SSPOrient: <i>Scaled Section Part's Orientation</i> is the orientation of the part relative to the section.</p>

55 MANIFEST	56 FG_STORAGE_LOC	57 FG_CARTON
<i>Manifest</i> is a collection of finished garment units belonging to a particular production order. These units are packed in cartons and stored together in the finished goods warehouse.	<i>Finished Goods Storage Location</i> is the location of finished goods in the finished goods warehouse. One or more manifests may be stored in one location. Each location is a rack located in an aisle in the warehouse.	<i>Finished Goods Carton</i> is a carton containing a certain quantity of finished garments from a particular production order.
<u>Primary Key Attributes</u>		<u>Primary Key Attributes</u>
		<i>FGCartonNo: Finished Goods Carton Number</i> is the identification number assigned to each carton.
<u>Primary Key Attributes</u>	<u>Primary Key Attributes</u>	<u>Primary Key Attributes</u>
		<i>FGCartNo: Finished Goods Carton Number</i> is the identification number assigned to each carton.
<u>ManifestNo: Manifest Number</u> is the identification number assigned to each manifest.	<i>FGStoLocNo: Finished Goods Storage Location Number</i> is the identification number assigned to each storage location in the FG warehouse.	<i>FGCarQty: Finished Goods Carton Quantity</i> is the quantity of garments in the carton.
<u>Non-key Attributes</u>	<u>Non-key Attributes</u>	<i>FGCarGrade: Finished Goods Carton Grade</i> is the quality grade of the garments in the carton.
<i>ProdOrdNo: FK PRODUCTION_ORDER (48).</i>		
<i>FGStoLocNo: FK FG_STORAGE_LOC (56).</i>		
		<i>FGCarLocStat: Finished Goods Carton Location Status</i> specifies the location of the carton. The carton may be waiting to be stocked, in the storage area or temporarily removed to packing area.
		<i>FGStoCap: Finished Goods Storage Capacity</i> is the maximum storage capacity of a location.
		ConsShOrdNo: FK CONS_SHIP_ORDER (101).

58 SHIPPING_ORDER	59 SHIPPING_LOC	60 SHIP_ORDER_ITEM
<p><i>Shipping Order</i> is an order sent by the customer to ship garments of a particular style to a location specified by the customer.</p> <p><u>Primary Key Attributes</u></p> <p>ShipOrdNo: <i>Shipping Order Number</i> is the serial number assigned to each shipping order received.</p> <p><u>Non-key Attributes</u></p> <p>CustomerCode: FK CUSTOMER (4).</p> <p>ShipLocCode: FK SHIPPING_LOC (59).</p> <p>ConsShOrdNo: FK CONS_SHIP_ORDER (101).</p> <p>ShipOrdDate: <i>Shipping Order Date</i> is the date of issue of the order.</p> <p>ShipDelDate: <i>Shipping Order Delivery Date</i> is the date by which the goods need to be delivered.</p> <p>ShOrdInstr: <i>Shipping Order Instructions</i> are the instructions from the customer that accompany the order.</p> <p>ShOrdStat: <i>Shipping Order Status</i> specifies the current status of processing of the shipping order. The status is updated at the end of each processing phase.</p> <p>HoldPeriod: <i>Hold Period</i> is the length of time the packed goods should be held before shipping to the customer. It is specified by the customer.</p>	<p><i>Shipping Location</i> is a location where the customer may want the finished garments to be shipped. Typically, a customer will have many locations spread all over the country. A location could be a warehouse belonging to a customer or a consolidator, or a retail store.</p> <p><u>Primary Key Attributes</u></p> <p>ShipOrdNo: FK SHIPPING_ORDER (58).</p> <p>ShipOrditNo: <i>Shipping Order Item Number</i> is the item number of garment item on the shipping order.</p> <p>ShipLocCode: <i>Shipping Location Code</i> is the identification code assigned to each shipping location specified by the customer.</p> <p><u>Non-key Attributes</u></p> <p>PlanSeqNo: FK SALES_PLAN (45).</p> <p>PlanCusLotNo: FK PLAN_ITEM (46).</p> <p>ShipLocType: <i>Shipping Location Type</i> is the type of the location, e.g., warehouse, retail store, consolidator, etc.</p> <p>ShOrditQty: <i>Shipping Order Item Quantity</i> is the quantity of the garment item ordered.</p>	<p><i>Shipping Order Item</i> is a line item on SHIPPING_ORDER (58) specifying quantity for each type of garment on the shipping order.</p> <p><u>Primary Key Attributes</u></p> <p>ShipOrdNo: FK SHIPPING_ORDER (58).</p> <p>ShipOrditNo: <i>Shipping Order Item Number</i> is the item number of garment item on the shipping order.</p> <p>Non-key Attributes</p> <p>PlanSeqNo: FK SALES_PLAN (45).</p> <p>PlanCusLotNo: FK PLAN_ITEM (46).</p> <p>ShipLocAddr: <i>Shipping Location Address</i> is the address of the shipping location.</p>

61 DEPARTMENT
Department is a functional subdivision of a manufacturing plant. For example, a plant may have sewing and finishing departments.

Primary Key Attributes

PlantCode: FK PLANT (42).

DeptCode: *Department code* is the identification code assigned to each department.

Non-key Attributes

DeptName: *Department Name* is the descriptive name of the department.

62 WORKSTATION

Workstation is a single machine or a group of related machines used to perform unit manufacturing operations. A workstation has the flexibility to perform more than one operation, but at any given time, it is set to perform one particular operation.

Primary Key Attributes

WrkstnNo: FK WORKSTATION (62).

OpnCode: FK OPERATION (107).

Non-key Attributes

WrkstnOpCap: *Workstation's Operation Capacity* is the capacity of the workstation in units per hour.

63 WORKST_CAPABILITY

Workstation Capability is a construction operation that a particular workstation is capable of performing. This entity also gives the capacity of the workstation for this particular operation.

Primary Key Attributes

WrkstnNo: FK WORKSTATION (62).

OpnCode: FK OPERATION (107).

Non-key Attributes

EqGroupNo: FK EQUIP_GROUP (29).

WrkstnName: *Workstation Name* is the descriptive name for the workstation.

WrkstnLoc: *Workstation Location* is the location of the workstation on the shopfloor.

WrkstnStat: *Workstation Status* indicates whether the workstation is available for use or not.

64 OPERATOR

Operator is the person responsible for operating the workstation to perform an operation.

Primary Key Attributes

OperatorNo: *Operator Number* is the identification number assigned to each operator.

Non-key Attributes

PlantCode: FK PLANT (42).

DeptCode: FK DEPARTMENT (61).

OpName: *Operator's Name* is the name of the operator.

JobCode: FK JOB (66).

65 OPERATOR_SKILL

Operator Skill is the skill and training level of the operator to perform a particular job. An operator may be skilled in one or more jobs and may be under training for a few more.

Primary Key Attributes

OperatorNo: FK OPERATOR (64).
OpnCode: FK OPERATION (107).

Non-key Attributes

OpTrComDays: *Completed Operator Training Days*

OpTrReqDays: Required Operator Training Days specifies the number of days required to train for the job.

OpEffGoal: *Completed Operator Training Days* specifies the number of days of training completed.

66 JOB

Job is a generic entity for a class of construction operations that have same level of complexity and require similar skills to perform.

Primary Key Attributes

JobCode: *Job Code* is the identification code assigned to each job.

Non-key Attributes

JobDesr: *Job Description* is the description of what the job entails.

JobGrade: *Job Grade* is the grade assigned to the job based on the level of skill required to perform it.

JobWgRate: *Job Wage Rate* is the wage rate associated with the job.

OpEffReq: *Operator Efficiency Goal* is the desired efficiency level at the end of training.

OpEffAttnd: *Attained Operator Efficiency* is the current level of efficiency of the operator on the job.

67 CUT_RM_SCHEDULE
Cutting Room Schedule is the production schedule for the cutting department. Productions orders scheduled for cutting in each production period are recorded here.

Primary Key Attributes

CRProdPeriod: *Cutting Room Production Period* is the period for which production is to be scheduled.

Primary Key Attributes

CRProdPeriod: FK CUT_RM_SCHEDULE (67).

Non-key Attributes

CRSModDate: *CR Schedule Modification Date* is the date on which the schedule was last modified.

CRSModPer: *CR Schedule Modifying Person* is the person responsible for making the schedule change.

CRCapacity: *Cutting Room Capacity* is the maximum cutting capacity (in terms of number of pairs cut) for a production period.

68 CUT_RM_SCHEDULE

69 CR_ASSIGNMENT

Cutting Room Schedule Item is the line item on CUT_RM_SCHEDULE (67) specifying a production order scheduled for a particular period. More than one production order can be scheduled for each cutting period.

Primary Key Attributes

CRProdPeriod: FK CUT_RM_SCHEDULE (67).

Primary Key Attributes

CRProdPeriod: FK OPERATION (107).

Non-key Attributes

CutStDate: *Cut Start Date* is the date on which work on the order is scheduled to begin in the cutting room.

WrkstnNo: FK WORKSTATION (62).

SEmpCode: FK SAL_EMPLOYEE (94).

CutExFinDate: *Cut's Expected Finish Date* is the date on which work on the order is expected to be finished.

CutAcFinDate: *Cut's Actual Finish Date* is the date on which the work is actually finished.

CRAsgFinTime: *Cutting Room Assignment Starting Time* is the scheduled starting time of the operation.

CRAsgFinTime: *Cutting Room Assignment Finish Time* is the time by which the operation is to be completed.

CRAsgStat: *Cutting Assignment Status* is the completion status of a cutting assignment.

70 CR_OPER_ASSGNMT	71 TRANSPORTER	72 SCALED_GROUP
<i>Cutting Room Operator Assignment</i> is the assignment of a particular operator to execute a cutting room assignment.	<i>Transporter</i> is a piece of material handling equipment, such as a conveyor, crane, forklift, etc.	<i>Scaled Group</i> is a collection of pattern part, on a marker section, that belong to the same garment. For example, a section may have parts for a size 36, a size 38 and two size 34 garments. This section would then have four groups of scaled parts on it.
<u>Primary Key Attributes</u>		
OpAsgnmtNo: FK OPERATOR (64).	TranspNo: <i>Transporter number</i> is the identification number of a transporter.	
<u>Non-key Attributes</u>	<u>Non-key Attributes</u>	<u>Primary Key Attributes</u>
OpAsgnmtNo: <i>Cutting Room Operator Assignment Number</i> is the identification number for each operator assignment.	EqGroupNo: FK EQUIP_GROUP (29).	ScaSecNo: FK SCALED_SECTION (52).
<u>Non-key Attributes</u>	<i>TranspName: Transporter Name</i> is the name of the transport equipment (e.g., electric cart).	ScaGrpNo: <i>Scaled Group Number</i> is the identification number for each group on a section.
CRProdPeriod: FK CUT_RM_SCHEDULE (67).	TranspLoc: <i>Transporter Location</i> is the current location of the transporter.	<u>Non-key Attributes</u>
ProdOrdNo: FK PRODUCTION_ORDER (48).	TranspCap: <i>TransPorter Capacity</i> is the maximum load carrying capacity of a transporter.	<u>None</u>
OpnCode: FK OPERATION (107).		
CRWrkUnits: <i>Cutting Room Work Units</i> is the quantity of work performed.	TranspSpeed: <i>Transporter Speed</i> is the speed at which the transporter moves.	
CRWageEnd: <i>Cutting Room Wage Earned</i> is the wage earned for the work assignment.	TransStat: <i>Transporter Status</i> is the availability status of a transporter.	

73 ASSIGNED_OPER

Assigned Operator is the operator assigned to operate the equipment reserved for production of garments for an order.

Primary Key Attributes

OperatorNo: FK OPERATOR (64).

PlantCode: FK PLANT (42).

PIProdPeriod: FK PLANT_SCHEDULE (75).

ProdOrdNo: FK PRODUCTION_ORDER (48).

EqGroupNo: FK EQUIP_GROUP (29).

Non-key Attributes

AssgnOpStat: *Operator Assignment Status* is the completion status of the job assigned to the operator.

74 PROD_ORD_MAT

Production Order Material is a material that would be required for producing garments for a particular order.

Primary Key Attributes

ProdOrdNo: FK PRODUCTION_ORDER (48).

ProdMatNo: *Production Material Number* is the serial number for each material required to produce the garments for an order.

MatCode: FK MATERIAL (22).

Non-key Attributes

ColorCode: FK COLOR (81).

ProdMatQty: *Production Material Quantity* is the quantity of the material required for the order.

ProdMatDest: *Production Material Destination* is the location where the material will be used (cutting room, sewing plant, etc.).

75 PLANT_SCHEDULE

Plant Schedule is the production schedule for a manufacturing plant.

Primary Key Attributes

PlantCode: FK PLANT (42).

PIProdPeriod: *Plant Production Period* is the period for which the schedule is prepared.

Non-key Attributes

PPSMModDate: *Plant Production Schedule Modification Date* is the date on which the schedule was last modified.

PPSMModPer: *Plant Production Schedule Modifying Person* is the person who makes the modification.

PPSCap: *Plant Production Capacity* is the maximum production capacity of a plant for a production period. This is rough estimate given in terms of garment units per period.

76 PLANT_SCH_ITEM	77 ASSIGNED_EQUIP	78 GARMENT_UNIT
<i>Plant Schedule Item</i> is a line item on PLANT_SCHEDULE (75) specifying the production order scheduled for a particular period. A single production order may be scheduled for more than a single period or more than one order may be scheduled for a single period.	<i>Assigned Equipment</i> is a group (line, module, etc.) that has been assigned to a production order.	<i>Garment Unit</i> is an individual garment produced by the enterprise.
<u>Primary Key Attributes</u>		<u>Primary Key Attributes</u>
		ProdOrdNo: FK PRODUCTION_ORDER (48).
<u>Primary Key Attributes</u>	PlantCode: FK PLANT (42).	GarUnitNo: Garment Unit Number is the identification number assigned to every single garment unit produced.
	PIProdPeriod: FK PLANT_SCHEDULE (75).	
<u>Primary Key Attributes</u>	ProdOrdNo: FK PRODUCTION_ORDER (48).	
	EqGroupNo: FK EQUIP_GROUP (29).	<u>Non-key Attributes</u>
<u>Primary Key Attributes</u>	ProdOrdNo: FK PRODUCTION_ORDER (48).	ManifestNo: FK MANIFEST (55).
	PIProdPeriod: FK PLANT_SCHEDULE (75).	FGCartonNo: FK FG_CARTON (57).
<u>Primary Key Attributes</u>	EqGroupNo: FK EQUIP_GROUP (29).	PlanSeqNo: FK SALES_PLAN (45).
	ProdOrdNo: FK PRODUCTION_ORDER (48).	PlanCusLotNo: FK PLAN_ITEM (46).
<u>Non-key Attributes</u>	Non-key Attributes	SizeCode: FK SIZE (7).
	Non-key Attributes	
<u>Non-key Attributes</u>	Non-key Attributes	GarUnitGrade: Garment Unit Grade is the quality grade of a garment unit.
<u>PSIScheduleDate</u> : <i>Plant Schedule Item Start Date</i> is the date on which work on the order is scheduled to begin.	<i>EAssgStartTime</i> : <i>Equipment Assignment Start Time</i> is the time from when the equipment is reserved for this assignment.	
<u>PSIExFinDate</u> : <i>Plant Production Schedule Item Expected Finish date</i> is the date on which the work is expected to be finished.	<i>EAssgFinTime</i> : <i>Equipment Assignment Finish Time</i> is the time till when the equipment is reserved for this order.	
<u>PSIAcFinDate</u> : <i>Plant Production Schedule Item Actual Finish Date</i> is the date on which the work is actually finished.	<i>EAssgStat</i> : <i>Equipment Assignment Status</i> is the completion status of the assignment.	
<u>PSIAssgndCap</u> : <i>Assigned Plant Capacity</i> is the part of total capacity that has been reserved for production of this order.	<i>EAssgQty</i> : <i>Equipment Assignment Quantity</i> is the number of garment units allocated for processing to the equipment group reserved for this assignment.	

79 PLAN_MATERIAL

Plan Materials are the construction materials that are not same for all the garments in a style; The type depends on the color and type of fabric used. For example, buttons on a shirt are chosen according to the color of the fabric used.

Primary Key Attributes

PlanSeqNo: FK SALES_PLAN (45).

PlanCusLotNo: FK PLAN_ITEM (46).

PlanMatNo: *Plan Material Number* is the serial number of the fabric dependent material item in the plan.

Non-key Attributes

CDCode: FK CONSTR_DETAIL (3).

ConfeaCode: FK CONSTR_FEATURE (18).

CFMatNo: FK CONSTR_FT_MAT (21).

MatCode: FK MATERIAL (22).

ColorCode: FK COLOR (81).

80 WORK_ASSIGNMENT

Work Assignments are the process steps from the process plan that are performed on the assigned equipment for the production order.

Primary Key Attributes

WrkAssgNo: *Work Assignment Number* is the number that identifies each operation that is assigned to line or a module.

ProcPlanNo: FK PROCESS_PLAN (23).

ProcStepNo: FK PROCESS_STEP (24).

Non-key Attributes

PlantCode: FK PLANT (42).

PIProdPeriod: FK PLANT_SCHEDULE (75).

ProdOrdNo: FK PRODUCTION_ORDER (48).

EqGroupNo: FK EQUIP_GROUP (29).

WrkAssgUnits: *Work Assignment Units* are the count of repeats of a process steps performed on a line or a module.

ColorB: *Color's Blue Value*.

ColorG: *Color's Green Value*.

81 COLOR

Color is the color of fabric and other materials used in the manufacture of garments.

Primary Key Attributes

ColorCode: *Color Code* is the code assigned to each distinct color in the color chart used by the enterprise. Each material, for which color is a useful attribute, is matched with the chart and assigned a color code.

Non-key Attributes

ColorBasic: *Color's Basic Description* is the descriptive name of the color, e.g., red.

ColorShade: *Color's Shade* is the descriptive name for the shade variant of the basic color, e.g., bright, light, pale, etc.

ColorR: *Color's Red Value* is one of the component values of the color, based on which the exact color can be re-created.

ColorB: *Color's Blue Value*.

ColorG: *Color's Green Value*.

82 QC PROCEDURE**83 QUALITY REPORT**

Quality Control Procedure is the description of the test or inspection procedure for carrying out quality control on fabric, materials or garments.

Primary Key Attributes

QCProcCode: *Quality Control Procedure Code* is the identification code assigned to each test and inspection procedure used in the enterprise.

Non-key Attributes

OCType: *Quality Control Procedure Type* indicates whether the procedure is for fabric, material or produced goods, and whether it is a test or an inspection procedure.

QCProcDescr: *Quality Control Procedure Description* is the description of how the procedure is performed.

QC Samp Std: *QC Procedure Sampling Standard* gives the sample size for carrying out the procedure.

QC Acc Crit: *QC Acceptance Criterion* is the criterion for acceptance of the item being tested.

QC Spec Instr: *QC Special Instructions* are the instructions accompanying each procedure. Special requirements of particular customers may be recorded here.

84 QUALITY REP ITEM

Quality Report is a collection of the results of various quality control procedures performed on any item of interest.

Primary Key Attributes

QualRepNo: *Quality Report Number* is the identification number assigned to each quality report generated.

Non-key Attributes

QRResDescr: *QC Result Description* is the description of the conclusions of the quality procedures carried out on the tested item.

QRRecAction: *Recommended Quality Actions* describes the action recommended to on the tested item.

Non-key Attributes

QCRepNo: *FK QUALITY REPORT (83).*

QualRepItNo: *Quality Report Item Number* is the serial number of the report item in the quality report.

Non-key Attributes

QCProcCode: *FK QC PROCEDURE (82).*

QCRepDate: *QC Report Date* is the date on which the QC procedure results are reported.

QCResult: *QC Result* is the result of the procedure carried out.

QCComment: *QC Comment* is the comment of the person in charge on the reported results.

Note
 Entities 85 to 90 are examples of category entities of QUALITY REP ITEM (84). The formats of these and other reports are not provided here because they are dependent on enterprises quality control requirements. Any reasonable format can be fitted into the framework presented here.

91 SAM_DEPT_SCH

Sample Department Schedule is the production schedule for the sample making department.

Primary Key Attributes

85 FAB_INSP_REPORT

Fabric Inspection Report is a category entity for QUALITY REP ITEM (84).

86 FAB_TEST_REPORT

Fabric Test Report is a category entity for QUALITY REP ITEM (84).

87 MAT_INSP_REPORT

Material Inspection Report is a category entity for QUALITY REP ITEM (84).

88 MAT_TEST_REPORT

Material Testing Report is a category entity for QUALITY REP ITEM (84).

89 FG_AUDIT_REPORT

Finished Goods Audit Report is a category entity for QUALITY REP ITEM (84).

90 FG_TEST_REPORT

Finished Goods Test Report is a category entity for QUALITY REP ITEM (84).

Non-key Attributes

SDProdPeriod: Sample Department Production Period is the period for which the schedule is prepared.

SDProdCap: Sample Department's Production Capacity is the number of samples the sample department can produce during a planning period.

92 SAM_DEP_SCH_ITEM	93 MATERIAL_SOURCE	94 SAL_EMPLOYEE
<i>Sample Department Schedule Item</i> is a line item on SAM_DEPT_SCH (91) specifying a sample order scheduled for a particular period.	<i>Material Source</i> is a supplier source from whom a particular material can be obtained.	<i>Salaried Employee</i> is an employee of the enterprise who is not paid on piece rate basis. Managers, supervisors and workers in certain jobs are examples of salaried employees.
<u>Primary Key Attributes</u>		
SDProdPeriod: FK SAM_DEPT_SCH (91).		
SDSchItNo: Sample Department Schedule Item Number is the serial number of the item on the schedule.	MatVenCode: FK MATERIAL_VENDOR (31).	SEmpCode: Salaried Employee Code is the identification code of an employee.
<u>Non-key Attributes</u>	<u>Non-key Attributes</u>	<u>Non-key Attributes</u>
	<i>MatSouPrice: Material Source's Price</i> is the price quoted by this source for a material.	PlantCode: FK PLANT (42).
		DeptCode: FK DEPARTMENT (61).
SreqNo: FK SAMPLE_REQ (8).	MatSouRat: Material Source Rating is the rating of this vendor as the supplier for a material.	SEmpName: Salaried Employee's Name is the name of the employee.
SDItStDate: Sample Department Schedule Item Start Date is the date on which production of samples is scheduled to begin.	MatSouLead: Material Source Lead Time is the lead time for supplying a material.	SEmpDesig: Salaried Employee's Designation is the designation of the employee, e.g., manager, pattern maker, etc.
SDItFinDate: Sample Department Schedule Item Finish Date is the date on which production is expected to finish.	MatSouCode: Material Source's Item Code is vendor's code for a material. This code is needed for ordering the material.	
	SDActFinDate: SD Actual Finish Date is date on which samples are actually ready.	

95 IRREG_STYLE	96 IRREG_FG_CARTON	97 REG_FG_CARTON
<p><i>Irregular Style</i> is a style that is assigned to garments marked irregular. For example, a particular irregular style may identify men's dress trousers of irregular quality grade.</p> <p><u>Primary Key Attributes</u></p> <p>IrregStNo: <i>Irregular Style Number</i> is the identification number of the irregular style.</p> <p><u>Non-key Attributes</u></p> <p>IrregStDesc: <i>Irregular Style Description</i> is the description of the style type. For example, men's denim work trousers.</p>	<p><i>Irregular Finished Goods Carton</i> is a carton containing irregular garments. It is one of the categories of entity FG_CARTON (57).</p> <p><u>Primary Key Attributes</u></p> <p>FGCartonNo: FK FG_CARTON (57).</p> <p><u>Non-key Attributes</u></p> <p>IrregStNo: FK IRREG_STYLE (95).</p>	<p><i>Regular Finished Goods Carton</i> is a carton containing regular garments. A carton may only contain garments of same fabric type, color, size and quality grade. This entity is one of the categories of entity FG_CARTON (57).</p> <p><u>Primary Key Attributes</u></p> <p>FGCartonNo: FK FG_CARTON (57).</p> <p><u>Non-key Attributes</u></p> <p>PlanSeqNo: FK SALES_PLAN (45).</p> <p>PlanCusLotNo: FK PLAN_ITEM (46).</p> <p>SizeCode: FK SIZE (7).</p>

98 SPREAD_SECTION	99 CUSTOMER_INQ	<p><i>Customer Inquiry</i> is an inquiry made by a customer to find out the status of an order. It includes all types of interactions between the enterprise and its customers. An inquiry is directed to a particular function area (e.g., customer service, distribution, sample making, etc.) in the enterprise.</p> <p><u>Primary Key Attributes</u></p> <p><i>SpreadSecNo: Spread Section Number</i> is a number identifying a section in the fabric spread.</p> <p><i>ProdOrdNo: FK PRODUCTION_ORDER</i> (48).</p> <p><i>ProdFabItNo: FK PROD_ORDER_ITEM</i> (50).</p> <p><u>Non-key Attributes</u></p> <p><i>MarkerNo: FK MARKER</i> (51).</p> <p><i>ScaSecNo: FK SCALED_SECTION</i> (52).</p> <p><i>SpFabLys: Spread Fabric Layers</i> specifies the number of layers to be laid in the spread section.</p> <p><i>SpFabActLys: Spread Fabric Actual Layers</i> is the actual number of layers laid in the spread section. The actual number of layers may not be the same as the desired number because of fabric availability.</p>	<p><i>Customer Inquiry Number</i> is the sequence number of the inquiry.</p> <p><u>Non-key Attributes</u></p> <p><i>CustomerCode: FK CUSTOMER</i> (4).</p> <p><i>CustInqRef: Customer Inquiry Reference</i> is the identification code of the item that is the subject of the inquiry. The item could be a style, plan or a concept.</p> <p><i>CustInqDate: Customer Inquiry Date</i> is the date on which the inquiry is made.</p> <p><i>CustInqDescr: Customer Inquiry Description</i> is the description of the inquiry.</p>	<p><i>CustInqType: Customer Inquiry Type</i> specifies the functional area to which the inquiry is addressed.</p>
		<p><i>Garment Sub-assembly</i> is a part of a garment being produced. Cut fabric parts are considered garment sub-assemblies.</p> <p><u>Primary Key Attributes</u></p>	<p><i>ProdOrdNo: FK PRODUCTION_ORDER</i> (48).</p> <p><i>GarUnitNo: Garment Unit Number</i> is a unique identification number assigned to each garment cut and assembled in a production order.</p> <p><i>ProcStatCode: FK PROCESS_STATE</i> (26).</p>	<p><i>GarSubLoc: Garment Sub-assembly Location</i> is the current location of the sub-assembly in the production system.</p>

101 CONS_SHIP_ORDER	102 PACK_SCHEDULE	103 PACK_SCHEDULE
<p><i>Consolidated Shipping Order</i> is an order prepared for packing by consolidating all the shipping orders for a given style. Retrieval of goods from warehouse and the subsequent packing operations are carried out for a consolidated order, and not for individual shipping orders.</p> <p><u>Primary Key Attributes</u></p> <p>ConsShOrdNo: <i>Consolidated Shipping Order Number</i> is the identification number for the consolidated order.</p> <p><u>Non-key Attributes</u></p> <p>ManifestNo: FK MANIFEST (55).</p>	<p><i>Packing Schedule</i> is the work schedule for the packing department.</p> <p><u>Primary Key Attributes</u></p> <p>PkSPeriod: <i>Packing Schedule Period</i> is the period for which packing orders are scheduled.</p> <p><u>Primary Key Attributes</u></p> <p>ConsShOrdNo: FK CONS_SHIP_ORDER (101).</p> <p><u>Non-key Attributes</u></p> <p>PkSModDDate: <i>Packing Schedule Modification Date</i> is the date on which the schedule was last modified.</p> <p><u>Non-key Attributes</u></p> <p>PkSModPer: <i>Packing Schedule Modifying Person</i> is the person who makes the modification.</p>	<p><i>Packing Schedule Item</i> is a line item on PACK_SCHEDULE (102) specifying the consolidated shipping order to be processed.</p> <p><u>Primary Key Attributes</u></p> <p>PkSPPeriod: FK PACK_SCHEDULE (102).</p> <p><u>Primary Key Attributes</u></p> <p>ConsShOrdNo: FK CONS_SHIP_ORDER (101).</p> <p><u>Non-key Attributes</u></p> <p>PkSISIDate: <i>Packing Schedule Item Start Date</i> is the date on which packing of the order is scheduled to begin.</p> <p>PkSIEFnDate: <i>Packing Schedule Item Expected Finish Date</i> is the date on which the shipment is expected to be ready.</p> <p>PkSIAcfnDate: <i>Packing Schedule Item Actual Finish date</i> is the date on which the shipment is actually ready.</p> <p>PkSIAssgnCap: <i>Assigned Packing Capacity</i> is the packing capacity assigned to a consolidated order.</p>

104 PACK_ASSIGNMENT	105 PACK_OP_ASSGNMT	106 PACK_OPERATION
<i>Packing Assignment</i> is an assignment of resources to carry out a packing operation on a particular order.	<i>Packing Operator Assignment</i> is the assignment of an operator to perform a packing operation.	<i>Packing Operation</i> is a basic operation performed in the packing department. For example, retrieving goods from storage location, picking, packing boxes, closing boxes, etc.
<u>Primary Key Attributes</u>		Packing operation entity is one of the categories of entity OPERATION (107).
PkSPeriod: FK PACK_SCHEDULE (102).	PkOpAssgNo: Packing Operator Assignment No is the serial number of the operator assignment.	PkOpCode: FK OPERATION (107).
ConsShOrdNo: FK CONS_SHIP_ORDER (101).		
<u>Non-key Attributes</u>		<u>Primary Key Attributes</u>
OpnCode: FK OPERATION (107).		OpnCode: FK OPERATION (107).
<u>Non-key Attributes</u>		
WrkstrNo: FK WORKSTATION (62).	PkSItemNo: FK PACK_SCHEDULE (102).	<u>Non-key Attributes</u>
SEmpCode: FK SAL_EMPLOYEE (94).	PkSItemNo: FK PACK_SCH_ITEM (103).	None
PkOpnStTime: Packing Operation Start Time is the time at which the operation is scheduled to start.	OpnCode: FK OPERATION (107).	
PkOpnFnTime: Packing Operation Finish Time is the time at which the operation is expected to finish.		
		PkOpnStat: Packing Operation Status is the completion status of a packing operation.

107 OPERATION	108 CR_OPERATION	109 STYLE_CONCEPT
<p><i>Operation</i> represents a basic unit operation performed in the various function areas of the enterprise. Operation is a generic entity with category entities that represent specific operations (e.g., cutting room operations, construction operations, etc.).</p> <p><u>Primary Key Attributes</u></p> <p>OpnCode: <i>Operation Code</i> is the identification code assigned to each operation.</p> <p><u>Non-key Attributes</u></p> <p>JobCode: FK JOB (66).</p> <p>OpnCatg: <i>Operation Category</i> is the specific category to which the operation belongs (e.g., packing).</p> <p>OpnName: <i>Operation Name</i> is the descriptive name for the operation.</p> <p>OpnDescr: <i>Operation Description</i> is the description of how the operation is performed.</p> <p>OpnStdHrs: <i>Operation Standard Hours</i> is the time hours required to repeat the operation 99 times.</p> <p>OpnCost: <i>Operation Cost</i> is the cost of performing the operation.</p>	<p><i>Cutting Room Operation</i> is a basic operation performed in the cutting room. For example, Spreading, cutting, etc. Cutting Room Operation is one of the categories of entity OPERATION (107).</p> <p><u>Primary Key Attributes</u></p> <p>OpnCode: FK OPERATION (107).</p> <p><u>Non-key Attributes</u></p> <p>None</p> <p>JobCode: FK JOB (66).</p> <p>OpnCatg: <i>Operation Category</i> is the specific category to which the operation belongs (e.g., packing).</p> <p>OpnName: <i>Operation Name</i> is the descriptive name for the operation.</p> <p>OpnDescr: <i>Operation Description</i> is the description of how the operation is performed.</p> <p>OpnStdHrs: <i>Operation Standard Hours</i> is the time hours required to repeat the operation 99 times.</p> <p>OpnCost: <i>Operation Cost</i> is the cost of performing the operation.</p>	<p><i>Style Concept</i> is the rough description (sketch, actual sample or textual description) from which a formal description, consisting of construction detail, pattern, fit and garde rules, is developed.</p> <p><u>Primary Key Attributes</u></p> <p>StyleConceptNo: <i>Style Concept Number</i> is the identification number of a style concept.</p> <p><u>Non-key Attributes</u></p> <p>CustomerCode: FK CUSTOMER (4).</p> <p>StyleNo: FK STYLE (1).</p> <p>StyConFile: <i>Style Concept File</i> is a reference to a file that contains the complete description of the concept.</p> <p>StyConStat: <i>Style Concept Status</i> is the status attribute that is used to track the development of a concept.</p>

110 PAT_GRADE_POINT	111 GRADE_POINT	112 SHIPPING_NOTICE
<p><i>Pattern Grade Points</i> are grade points marked on a particular pattern part. By displacing these points according to the grade rules, a pattern part can be reduced or enlarged for different garment sizes.</p> <p><u>Primary Key Attributes</u></p> <p>BasPatNo: FK BASE_PATTERN (13).</p> <p>RunNo: FK PATTERN (14).</p> <p>PatParNo: FK PATTERN_PART (15).</p> <p><u>Non-key Attributes</u></p> <p>GrdPointNo: FK GRADE_POINT (111).</p> <p><u>Non-key Attributes</u></p> <p>GPLocX: <i>Grade Point's X Coordinate</i> is the location coordinate of a grade point on a pattern.</p> <p>GPLocY: <i>Grade Point's Y Coordinate</i> is the location/coordinate of a grade point on a pattern.</p>	<p><i>Grade Points</i> are points that are marked on a pattern and displaced according to the grade rules to obtain patterns for different sizes of garment. These points are referred to in the grade rules and marked on the pattern parts.</p> <p><u>Primary Key Attributes</u></p> <p>GraPointNo: <i>Grade Point Number</i> is the identification number of a grade point.</p> <p><u>Non-key Attributes</u></p> <p>None</p>	<p><i>Shipping Notice</i> is a notice sent by the enterprise to the customer, prior to shipping the garments ordered by the customer.</p> <p><u>Primary Key Attributes</u></p> <p>ShipNoticeNo: <i>Shipping Notice Number</i> is the serial number assigned to each shipping notice sent out.</p> <p><u>Non-key Attributes</u></p> <p>ShipOrdNo: FK SHIPPING_ORDER (58).</p> <p><u>Non-key Attributes</u></p> <p>ShipOrdItNo: FK SHIP_ORDER_ITEM (60).</p> <p><u>Non-key Attributes</u></p> <p>ShipItQty: <i>Shipping Item Quantity</i> is the quantity of the garment of a particular style that will be shipped to the customer.</p>

113 SOURCE	114 OP_REPORT	115 OP_REPORT_ITEM
<i>Source</i> is an external or internal source capable of carrying out specific operations for the manufacturing enterprise.	<i>Operation Report</i> is a collection of reports on the performance of the various departments in an enterprise.	<i>Operation Report Item</i> is an item on OP_REPORT (114) containing the information pertaining to the performance of a particular department. This is a generic entity for one of many operation reports. For example, the operation report for cutting is different from that of sewing, but both are represented by the generic entity <i>Operation Report Item</i> .
<u>Primary Key Attribute</u> <i>SourceCode</i> : <i>Source Code</i> is the identification code assigned to each source, external or internal.	<u>Primary Key Attribute</u> <i>OpRepNo</i> : <i>Operation Report Number</i> is the identification number assigned to each operation report generated.	<u>Primary Key Attribute</u> <i>OpRepNo</i> : FK OP_REPORT (114).
<u>Non-key Attributes</u> <i>OpnCode</i> : FK OPERATION (107).	<u>Non-key Attributes</u> <i>SourceName</i> : <i>Source Name</i> is the name for the source.	<u>Non-key Attributes</u> <i>OpnCode</i> : FK OPERATION (107).
<u>Non-key Attributes</u> <i>SourceLoc</i> : <i>Source Location</i> is the place where the source is located.	<u>Non-key Attributes</u> <i>SourceLead</i> : <i>Source Lead Time</i> is the lead time required by the source to complete a particular operation.	<u>Non-key Attributes</u> <i>OpRepDate</i> : <i>Operation Report Date</i> is the date on which the report was created.
		<i>OpRepItComment</i> : <i>Operation Report Item Comment</i> is the comment of the person in charge of creating the report.

Section III

Table of entities and their attributes

TABLE OF ENTITIES AND THEIR ATTRIBUTES

ATTRIBUTE NAME PK FK ATTR TYPE¹ COMMENT

1 STYLE

StyleNo	Y	N	C(10)	ID # assigned to the style
CDCode	N	Y	*	
BasPatNo	N	Y	*	
RunNo	N	Y	*	
FitNo	N	Y	*	
ProcPlanNo	N	Y	*	
StyCreDate	N	N	D	Style creation date
StyleStatus	N	N	C(4)	Completion status of the style

2 FIT

FitNo	Y	N	N(9)	ID number for the fit
GraTabNo	N	Y	*	
MeasInstr	N	N	C(160)	Measuring instructions
FitStatus	N	N	C(4)	Completion status

3 CONSTR_DETAIL

CDCode	Y	N	C(8)	Construction detail ID code
CDCreator	N	N	C(30)	Person who creates the construction detail
CDCreDate	N	N	D	Date on which construction detail is created
CDStatus	N	N	C(4)	Completion status

4 CUSTOMER

CustomerCode	Y	N	C(8)	ID code for a customer
CustName	N	N	C(30)	Customer's name
CustAddr	N	N	C(160)	Customer's address
CustContact	N	N	C(80)	Customer's contact person
CustStdSpec	N	N	C(72)	Customer's standard garment specifications

5 SAM_PROD_ASSGNMT

SDProdPeriod	Y	Y	*
SDSchiItNo	Y	Y	*
SEmpCode	Y	Y	*

6 FABRIC

MatCode	Y	Y	*
ColorCode	Y	Y	*
FabWidth	N	N	N(3)

¹ Attribute type is Character, Numeric or Date (C, D, or N); * indicates attribute type defined in a parent entity.

7 SIZE

SizeCode	Y	N	C(8)	Size code of waist and inseam
Waist	N	N	N(2)	Measurement at the waist
Inseam	N	N	N(2)	Inseam measurement

8 SAMPLE_REQ

SReqNo	Y	N	N(9)	Log number of sample request
StyConceptNo	N	Y	*	
SReqDate	N	N	D	Sample request date
SDelDate	N	N	D	Sample delivery date
SActDelDate	N	N	D	Actual Delivery Date
SSpeInstr	N	N	C(240)	Special instructions for sample
SReqStat	N	N	C(4)	Completion status of request
QualRepNo	N	Y	*	

9 SAM_REQ_ITEM

SReqNo	Y	Y	*	
SReqItemNo	Y	N	N(3)	Item number on sample request
SizeCode	N	Y	*	
SamQty	N	N	N(3)	Quantity of units ordered
SReqItDescr	N	N	C(80)	Description of the item (fabric)

10 MEASUREMENT

FitNo	Y	Y	*	
SizeCode	Y	Y	*	
Seat	N	N	N(3,1)	Measurement at seat
Rise	N	N	N(3,1)	Measurement at the riser
Knee	N	N	N(3,1)	Measurement at knee
Bottom	N	N	N(3,1)	Measurement at bottom

11 GRADE_TABLE

GraTabNo	Y	N	N(6)	Grade Table Number
GraTabStatus	N	N	C(4)	Completion status

12 GRADE_RULE

GraTabNo	Y	Y	*	
GraPointNo	Y	Y	*	
SizeCode	Y	Y	*	Grade rule number for size
DispIX	N	N	N(3,1)	Displacement along X axis
DispIY	N	N	N(3,1)	Displacement along Y axis

13 BASE_PATTERN

BasPatNo	Y	N	C(4)	Base pattern number
BasPatDescr	N	N	C(80)	Base pattern description
BasPatStatus	N	N	C(4)	Completion status

14 PATTERN

BasPatNo	Y	Y	*	
RunNo	Y	N	N(4)	Base modification number
PatAvYard	N	N	N(4,1)	Average area for pattern
PatStatus	N	N	C(4)	Completion status

15 PATTERN_PART

BasPatNo	Y	Y	*	
RunNo	Y	Y	*	
PatParNo	Y	N	N(2)	ID for pattern part
PatParName	N	N	C(80)	Name of the pattern part

16 GRAD_PAT_PART

BasPatNo	Y	Y	*	
RunNo	Y	Y	*	
PatParNo	Y	Y	*	
SizeCode	Y	Y	*	

17 CONSTR_DET_ITEM

CDCode	Y	Y	*	
ConFeaCode	Y	Y	*	
CDItDescr	N	N	C(80)	Description of the garment feature
CDItQty	N	N	N(6)	Quantity of the feature

18 CONSTR_FEATURE

ConFeaCode	Y	N	C(8)	Feature ID code
ConFeaType	N	N	C(80)	Construction feature type
ConFeaVar	N	N	C(80)	Construction feature variation
CFDescr	N	N	C(80)	Construction feature description

19 CONSTR_FT_ITEM

ConFeaCode	Y	Y	*	Construction feature code
OprnCode	Y	Y	*	
CFItQty	N	N	N(4)	Number of times operation is performed

²LCA: Line/Curve/Angle

20 CONSTR_OPR

OprnCode	Y	Y	*	Construction operation ID
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21 CONSTR_FT_MAT

CDCode	Y	Y	*	
ConFeaCode	Y	Y	*	
CFMatNo	Y	N	N(9)	Serial number of material item
MatCode	N	Y	*	
MatQty	N	N	N(6)	Material quantity required

22 MATERIAL

MatCode	Y	N	C(8)	Construction material code
MatDescr	N	N	C(80)	Construction material description
MatUnit	N	N	C(6)	Units (yard, count, etc.)
MatCost	N	N	N(7,4)	Cost per unit

23 PROCESS_PLAN

ProcPlanNo	Y	N	N(8)	Process plan number
------------	---	---	------	---------------------

24 PROCESS_STEP

ProcPlanNo	Y	Y	*	
OprnCode	N	Y	*	
ProcStepNo	Y	N	N(5)	Sequence number of the operation
ProcStatCode	N	Y	*	

25 MASTER_SCHEDULE

ProdPeriod	Y	N	D	Week(s) for which production is scheduled
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26 PROCESS_STATE

ProcStatCode	Y	N	C(4)	Code for a process state
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27 PROC_INPUT_STAT

ProcPlanNo	Y	Y	*	
ProcStepNo	Y	Y	*	
ProcStatCode	Y	Y	*	

28 GARMENT_TYPE

PlanSeqNo	Y	Y	*	
PlanCusLotNo	Y	Y	*	
SizeCode	Y	Y	*	

29 EQUIP_GROUP

PlantCode	N	Y	*	
DeptCode	N	Y	*	
EqGroupNo	Y	N	N(3)	Line or module number
EqGroupFn	N	N	C(20)	Function (e.g. sewing, pressing, etc.)

30 BUFFER

BufferNo	Y	N	N(9)	ID number of a storage buffer
EqGroupNo	N	Y	*	
BufferLoc	N	N	C(50)	Location of the buffer
BufferCap	N	N	N(7)	Capacity of the buffer

31 MATERIAL_VENDOR

MatVenCode	Y	N	C(8)	Vendor code
MatVenName	N	N	C(30)	Material vendor's name
MatVenAddr	N	N	C(80)	Material vendor's address
MatVenCont	N	N	C(20)	Mat vendor's contact person
MatVenRatg	N	N	C(3)	Mat vendor's rating

32 MAT_PURCHASE_ORDER

MatPONo	Y	N	N(8)	Material PO number
MatVenCode	N	Y	*	
MatPODate	N	N	D	Material PO date
MatDelDate	N	N	D	Material delivery date
MatAvailPer	N	N	D	Period for which ordered

33 MAT_PO_ITEM

MatPONo	Y	Y	*	
MatPOItemNo	Y	N	N(8)	PO item number
MatCode	N	Y	*	
ColorCode	N	Y	*	
QualRepNo	N	Y	*	
MatOrdQty	N	N	N(6)	Material quantity
MatRecdQty	N	N	N(6)	Quantity actually received
MatAccStat	N	N	C(4)	Material Acceptance Status

34 MAT_VARIANT

MatCode	Y	Y	*	
MatType	N	N	C(15)	Category
ColorCode	Y	Y	*	

35 STORED_ITEM

StoItemNo	Y	N	N(3)	Storage item number
MatPONo	N	Y	*	
MatPOItemNo	N	Y	*	
MatLocIndex	Y	Y	*	
StoItOrigQty	N	N	N(6,2)	Received quantity of material
StoItRemQty	N	N	N(6,2)	Remaining quantity of material
StoItLocStat	N	N	C(4)	Location status of material batch
StoItAssgCap	N	N	N(7)	Capacity assigned to this item
ProdOrdNo	N	Y	*	

36 MATERIAL_LOCATION

MatLocIndex	Y	N	C(6)	Material location index
MLRowNo	N	N	N(3)	Row number in material warehouse
MLShelfNo	N	N	N(3)	Shelf number in material warehouse
MLTotalCap	N	N	N(7)	Total storage capacity
MLType	N	N	C(5)	Storage type (boxes, bolts, etc.)

37 TRIM

MatCode	Y	Y	*	
ColorCode	Y	Y	*	
TrimSize	N	N	N(3)	Size of pockets, waist-bands, etc.

38 TK_TAG_LABEL

MatCode	Y	Y	*	
ColorCode	Y	Y	*	
TTLText	N	N	C(160)	Text printed on TTL

39 CLOSURE

MatCode	Y	Y	*	
ColorCode	Y	Y	*	
CloSize	N	N	N(3)	Size of the zipper, etc.

40 THREAD

MatCode	Y	Y	*	
ColorCode	Y	Y	*	
ThrCount	N	N	N(3)	Count of the thread

41 ACCESSORY

MatCode	Y	Y	*	
ColorCode	Y	Y	*	
AccSize	N	N	N(3)	Size of belts, bags, etc.

42 PLANT

PlantCode	Y	N	C(8)	ID code assigned to a manuf. plant
PlantLoc	N	N	C(30)	Plant physical location
PlantType	N	N	C(15)	Plant type (e.g. sewing, finishing, etc.)

43 PLANT_CAPACITY

PlantCode	Y	Y	*	
ConFeaCode	Y	Y	*	
ConFeaCap	N	N	N(7)	Construction feature capacity

44 MASTER_SCH_ITEM

PlantCode	Y	Y	*	
ProdPeriod	Y	Y	*	
PlanSeqNo	Y	Y	*	
AssngdCap	N	N	N(7)	Capacity assigned to plan

45 SALES_PLAN

PlanSeqNo	Y	N	N(9)	Plan sequence number
StyleNo	N	Y	*	
IrregStNo	N	Y	*	
PlanDate	N	N	D	Initiation date of plan outline
PlanType	N	N	C(5)	Type (new or re-buy)
PlanStatus	N	N	C(4)	Plan status

46 PLAN_ITEM

PlanSeqNo	Y	Y	*	
PlanCusLotNo	Y	N	N(6)	Customer assigned lot for item
ColorCode	N	Y	*	
MatCode	N	Y	*	
PlanItemQty	N	N	N(5)	Quantity for each item on plan
PlanItInstr	N	N	C(150)	Special instructions for item

47 PLAN_DEL_SCHEDULE

PlanSeqNo	Y	Y	*	
DelSchItNo	Y	N	N(9)	Delivery schedule item number
PlanDelProp	N	N	N(0,4)	Delivery quantity as proportion of total
PlanDelDate	N	N	D	Delivery date

48 PRODUCTION_ORDER

ProdOrdNo	Y	N	N(9)	Production order (cut) number
PlanSeqNo	N	Y	*	
QualRepNo	N	Y	*	
MarkerNo	N	Y	*	
PrOCutDate	N	N	D	Cutting date for the Production Order
PrOReadyDate	N	N	D	Date the goods should be ready
PrOScale	N	N	N(3,2)	Scale factor for the order
PrOSpeInstr	N	N	C(150)	Special instructions for PO
PrOrdStat	N	N	C(4)	Progress status of PO

49 SIZE_SCALE

ProdOrdNo	Y	Y	*	
ProdFabItNo	Y	Y	*	
SizeCode	Y	Y	*	
SSProp	N	N	N(3,2)	Relative quantity for the size
SSAActProp	N	N	N(3,2)	Proportion achieved after cutting fabric

50 PROD_ORDER_ITEM

ProdOrdNo	Y	Y	*	
ProdFabItNo	Y	N	N(6)	Item number for prod. fabric
PlanSeqNo	N	Y	*	
PlanCusLotNo	N	Y	*	
POItQty	N	N	N(6)	No. of units required
POItActQty	N	N	N(6)	No. of units actually cut
PFSpeInstr	N	N	C(150)	Special instruction for fabric

51 MARKER

MarkerNo	Y	N	N(9)	ID for the marker for the order
MarkerWidth	N	N	N(4,2)	Width of the marker

52 SCALED_SECTION

ScaSecNo	Y	N	N(9)	Scaled Section Number
ScaSecLen	N	N	N(4,2)	Scaled section length
ScaSecWid	N	N	N(4,2)	Scaled section width
ScaSecUtil	N	N	N(3)	Fabric utilization for section

53 MARKER_SECTION

MarkerNo	Y	Y	*	
ScaSecNo	Y	Y	*	

54 SCALED_SEC_PART

ScaSecNo	Y	Y	*	
ScaGrpNo	Y	Y	*	
ScaSecParNo	Y	N	N(9)	Scaled section part number
BasPatNo	N	Y	*	
RunNo	N	Y	*	
PatParNo	N	Y	*	
SizeCode	N	Y	*	
SSPXCoord	N	N	N(4,2)	X coordinate for the part in section
SSPYCoord	N	N	N(4,2)	Y coordinate for the part in section
SSPOrient	N	N	N(3,1)	Orientation angle of the part

55 MANIFEST

ManifestNo	Y	N	N(9)	Manifest number
ProdOrdNo	N	Y	*	
FGStoLocNo	N	Y	*	

56 FG_STORAGE_LOC

FGStoLocNo	Y	N	N(3)	Finished goods storage rack number
FGStoRowNo	N	N	N(3)	Aisle number of FG warehouse
FGStoRacNo	N	N	N(3)	Rack number in the aisle
FGStoCap	N	N	N(7)	Storage capacity

57 FG_CARTON

ManifestNo	N	Y	*	
FGCartonNo	Y	N	N(9)	FG carton number
FGCarQty	N	N	N(6)	Quantity in the carton
FGCarGrade	N	N	C(5)	Quality grade for the FG
FGCarLocStat	N	N	C(4)	FG carton location status
ConsShOrdNo	N	Y	*	

58 SHIPPING_ORDER

ShipOrdNo	Y	N	N(9)	Shipping order sequence number
CustomerCode	N	Y	*	
ShipLocCode	N	Y	*	
ConsShOrdNo	N	Y	*	
ShipOrdDate	N	N	D	Date of the order
ShOrdDelDate	N	N	D	Delivery date of the order
ShOrdInstr	N	N	C(150)	Instructions for the order
ShOrdStat	N	N	C(4)	Processing status of shipping order

59 SHIPPING_LOC

CustomerCode	Y	Y	*	
ShipLocCode	Y	N	C(8)	Shipping destination code
ShipLocType	N	N	C(15)	Type of location: Store, WH, etc.
ShipLocAddr	N	N	C(150)	Address of the location

60 SHIP_ORDER_ITEM

ShipOrdNo	Y	Y	*	
ShpOrdItNo	Y	N	N(9)	Shipping order item number
PlanSeqNo	N	Y	*	
PlanCusLotNo	N	Y	*	
SizeCode	N	Y	*	
ShOrdItQty	N	N	N(6)	Quantity of the item ordered

61 DEPARTMENT

PlantCode	Y	Y	*	
DeptCode	Y	N	C(8)	Department code
DeptName	N	N	C(20)	Name of the department

62 WORKSTATION

EqGroupNo	N	Y	*	
WrkstnNo	Y	N	N(9)	Workstation number
WrkstnName	N	N	C(30)	Workstation name
WrkstnLoc	N	N	C(50)	Physical location on shopfloor
WrkstnStat	N	N	C(4)	Operational status of work station

63 WRKST_CAPABILITY

WrkstnNo	Y	Y	*	
OprnCode	Y	Y	*	
WrkstnOpCap	N	N	N(7)	Capacity for the operation

64 OPERATOR

OperatorNo	Y	N	N(6)	Operator number
PlantCode	N	Y	*	
DeptCode	N	Y	*	
OpName	N	N	C(30)	Operator's name
JobCode	N	Y	*	

65 OPERATOR_SKILL

OperatorNo	Y	Y	*	
OprnCode	Y	Y	*	
OpTrReqDays	N	N	N(3)	Required training days for job
OpTrComDays	N	N	N(3)	Completed training days
OpEffGoal	N	N	N(2,2)	Efficiency goal
OpEffAttnd	N	N	N(2,2)	Attained efficiency

66 JOB

JobCode	Y	N	C(8)	ID code of a job
JobDescr	N	N	C(150)	Job description
JobGrade	N	N	C(2)	Grade based on skill required
JobWgRate	N	N	N(7,2)	Regular pay rate for job
JobTrReq	N	N	C(150)	Job training requirements

67 CUT_RM_SCHEDULE

CRProdPeriod	Y	N	D	Production period of the cutting room
CRSModDate	N	N	D	Date CR schedule was last modified
CRSModPer	N	N	C(30)	Person who modified the schedule
CRCapacity	N	N	N(7)	Capacity for the period

68 CUT_RM_SCH_ITEM

CRProdPeriod	Y	Y	*	
ProdOrdNo	Y	Y	*	
CutStDate	N	N	D	Starting date for cutting
CutExFinDate	N	N	D	Expected finish date
CutAcFinDate	N	N	D	Actual finish date
CutAssgndCap	N	N	N(7)	Assigned capacity

69 CR_ASSIGNMENT

CRProdPeriod	Y	Y	*	
ProdOrdNo	Y	Y	*	
OprnCode	Y	Y	*	
WrkstnNo	N	Y	*	
SEmpCode	N	Y	*	
CRAsgStTime	N	N	N(4)	Starting time for operation
CDAsgStat	N	N	C(4)	Assignment status
CRAsgFinTime	N	N	N(4)	Finishing time for operation

70 CR_OPER_ASSGNMT

OperatorNo	Y	Y	*	
OpAsgnmtNo	Y	N	N(9)	Operator assignment number
CRProdPeriod	N	Y	*	
ProdOrdNo	N	Y	*	
OprnCode	N	Y	*	
CRWrkUnits	N	N	N(7)	Units of work performed
CRWageErnd	N	N	N(5,2)	Wage earned

71 TRANSPORTER

TranspNo	Y	N	N(9)	ID number of transport equip.
EqGroupNo	N	Y	*	
TranspName	N	N	C(20)	Name of the transporter
TranspLoc	N	N	C(30)	Current location
TranspCap	N	N	N(7)	Capacity
TranspSpeed	N	N	N(3,2)	Speed
TranspStat	N	N	C(4)	Status

72 SCALED_GROUP

ScaSecNo	Y	Y	*	
ScaGrpNo	Y	N	N(9)	ID number for each group in a section

73 ASSIGNED_OPER

OperatorNo	Y	Y	*	
PlantCode	Y	Y	*	
PIProdPeriod	Y	Y	*	
ProdOrdNo	Y	Y	*	
EqGroupNo	Y	Y	*	
AssgOpStat	N	N	C(4)	Status of assigned operation (busy, etc.)

74 PROD_ORD_MAT

ProdOrdNo	Y	Y	*	
ProdMatNo	Y	N	N(9)	Serial number for material required
MatCode	N	Y	*	
ColorCode	N	Y	*	
ProdMatQty	N	N	N(5)	Quantity of the item
ProdMatDest	N	N	C(30)	Destination of production material

75 PLANT_SCHEDULE

PlantCode	Y	Y	*	
PIProdPeriod	Y	N	D	Plant's production period
PPSModDate	N	N	D	Date of last modification
PPSModPer	N	N	C(30)	Person who made the modified
PPSCap	N	N	N(7)	Production capacity for period

76 PLANT_SCH_ITEM

PlantCode	Y	Y	*	
PIProdPeriod	Y	Y	*	
ProdOrdNo	Y	Y	*	
PSIStDate	N	N	D	Starting date
PSIExFinDate	N	N	D	Expected finish date
PSIAcFinDate	N	N	D	Actual finish date
PSIAssgndCap	N	N	N(7)	Capacity assigned to this item

77 ASSIGNED_EQUIP

PlantCode	Y	Y	*	
PIProdPeriod	Y	Y	*	
ProdOrdNo	Y	Y	*	
EqGroupNo	Y	Y	*	
SEmpCode	N	Y	*	
EAssgStTime	N	N	N(4)	Time from which equip. reserved
EAssgFinTime	N	N	N(4)	Time till equipment reserved
EAssgStat	N	N	C(4)	Completion status of assignment
EAssgQty	N	N	N(5)	# of units of work assigned

78 GARMENT_UNIT

ProdOrdNo	Y	Y	*	
GarUnitNo	Y	N	N(9)	Garment stock unit number
FGCartonNo	N	Y	*	
PlanSeqNo	N	Y	*	
PlanCusLotNo	N	Y	*	
SizeCode	N	Y	*	
GarUnitGrade	N	N	C(4)	Quality grade for the garment

79 PLAN_MATERIAL

PlanSeqNo	Y	Y	*	
PlanCusLotNo	Y	Y	*	
PlanMatNo	Y	N	N(9)	Plan specific material for style
CDCode	N	Y	*	
ConFeaCode	N	Y	*	
CFMatNo	N	Y	*	
MatCode	N	Y	*	
ColorCode	N	Y	*	

80 WORK_ASSIGNMENT

WrkAssgNo	Y	N	N(9)	ID # of ea. op. assigned to line/module
ProcPlanNo	Y	Y	*	
ProcStepNo	Y	Y	*	
PlantCode	N	Y	*	
PIProdPeriod	N	Y	*	
ProdOrdNo	N	Y	*	
EqGroupNo	N	Y	*	
WrkAssgUnits	N	N	N(4)	Number of units done

81 COLOR

ColorCode	Y	N	C(8)	Color code
ColorBasic	N	N	C(30)	Descriptive name for the color
ColorShade	N	N	C(4)	Shade variant of the color
ColorR	N	N	N(8)	Red component
ColorG	N	N	N(8)	Green
ColorB	N	N	N(8)	Blue

82 QC PROCEDURE

QCProcCode	Y	N	C(8)	QC procedure number
QCType	N	N	C(20)	Test, inspection, etc.
QCProcDescr	N	N	C(150)	Description of the procedure
QCSampStd	N	N	N(5)	Sampling standard for QC
QCAccCrit	N	N	C(20)	Acceptance criterion
QCSpeInstr	N	N	C(150)	Instructions for QC

83 QUALITY_REPORT

QualRepNo	Y	N	N(9)	Quality report number
QRResDescr	N	N	C(80)	Description of audit results
QRRecAction	N	N	C(50)	Recommended action on item

84 QUALITY REP ITEM

QualRepNo	Y	Y	*	
QualRepItNo	Y	N	N(9)	Report item number
QCProcCode	N	Y	*	
QCRepDate	N	N	D	Date of preparing report
QCResult	N	N	C(8)	Result (accept/reject) of the procedure
QCComment	N	N	C(150)	Comment on the test results

85 FAB_INSP_REPORT

QualRepNo	Y	Y	*	
QualRepItNo	Y	Y	*	

86 FAB_TEST_REPORT

QualRepNo	Y	Y	*	
QualRepItNo	Y	Y	*	

87 MAT_INSP_REPORT

QualRepNo	Y	Y	*	
QualRepItNo	Y	Y	*	

88 MAT_TEST_REPORT

QualRepNo	Y	Y	*	
QualRepItNo	Y	Y	*	

89 FG_AUDIT_REPORT

QualRepNo	Y	Y	*	
QualRepItNo	Y	Y	*	

90 FG_TEST_REPORT

QualRepNo	Y	Y	*
QualRepItNo	Y	Y	*

91 SAM_DEPT_SCH

SDProdPeriod	Y	N	D	Schedule preparation period
SDProdCap	N	N	N(7)	Production capacity

92 SAM_DEPT_SCH_ITEM

SDProdPeriod	Y	Y	*	
SDSchItNo	Y	N	N(3)	Schedule item number
SReqNo	N	Y	*	
SDItStDate	N	N	D	Starting date for the item
SDItFinDate	N	N	D	Projected finish date
SDActFinDate	N	N	D	Actual finish date
SDAssgnType	N	N	C(8)	Cutting, sewing, etc.

93 MATERIAL_SOURCE

MatCode	Y	Y	*	
MatVenCode	Y	Y	*	
MatSouPrice	N	N	N(7,2)	Price per unit from this vendor
MatSouRat	N	N	C(4)	Quality rating
MatSouLead	N	N	N(4)	Lead time
MatSouItCode	N	N	C(8)	Vendor's code for material

94 SAL_EMPLOYEE

SEmpCode	Y	N	C(8)	Employee code
PlantCode	N	Y	*	
DeptCode	N	Y	*	
SEmpName	N	N	C(30)	Employee's name
SEmpDesig	N	N	C(25)	Employee's designation

95 IRREG_STYLE

IrregStNo	Y	N	N(9)	Irregular style number
IrregStDescr	N	N	C(150)	Irregular style description

96 IRREG_FG_CARTON

FGCartonNo	Y	Y	*	
IrregStNo	N	Y	*	

97 REG_FG_CARTON

FGCartonNo	Y	Y	*
PlanSeqNo	N	Y	*
PlanCusLotNo	N	Y	*
SizeCode	N	Y	*

98 SPREAD_SECTION

ProdOrdNo	Y	Y	*	
SpreadSecNo	Y	N	N(9)	Spread section number
ProdFabItNo	Y	Y	*	
SpFabLyrs	N	N	N(3)	No. of layers to be spread
SpFabActLyrs	N	N	N(3)	Actual spread layers
MarkerNo	N	Y	*	
ScaSecNo	N	Y	*	

99 CUSTOMER_INQ

CustInqNo	Y	N	N(9)	Customer inquiry number
CustomerCode	N	Y	*	
CustInqDate	N	N	D	Date of inquiry
CustInqDescr	N	N	D	Description of inquiry
CustInqResp	N	N	C(150)	Description of the response
CustInqType	N	N	C(10)	Type of inquiry
CustInqStat	N	N	C(4)	Processing status of inquiry
CustInqRef	N	N	N(9)	Ref. # for style, plan, etc.

100 GAR_SUBASSEMBLY

ProdOrdNo	Y	Y	*	
GarUnitNo	Y	Y	*	
ProcStatCode	Y	Y	*	
ScaSecNo	N	Y	*	
ScaGrpNo	N	Y	*	
GarSubLoc	N	N	C(20)	Physical location of the sub-assembly

101 CONS_SHIP_ORDER

ConsShOrdNo	Y	N	N(9)	Consolidated shipping order. no.
ManifestNo	N	Y	*	
CShOrdStat	N	N	C(4)	Status of consolidated ship. order

102 PACK_SCHEDULE

PkSPeriod	Y	N	D	Packing schedule period
PkSModDate	N	N	D	Date of last modification
PkSCapacity	N	N	N(7)	Packing capacity for the period
PkSModPer	N	N	C(30)	Person who made the modification

103 PACK_SCH_ITEM

PkSPeriod	Y	Y	*	
ConsShOrdNo	Y	Y	*	
PkSIStDate	N	N	D	Starting date for packing
PkSIEFnDate	N	N	D	Expected finish date
PkSIAFnDate	N	N	D	Actual finish date
PkSIAssgnCap	N	N	N(7)	Capacity assigned to this item

104 PACK_ASSIGNMENT

PkSPeriod	Y	Y	*	
ConsShOrdNo	Y	Y	*	
OprnCode	Y	Y	*	
WrkstnNo	N	Y	*	
SEmpCode	N	Y	*	
PkOprnStTime	N	N	N(4)	Starting time
PkOprnFnTime	N	N	N(4)	Finish time
PkOprnStat	N	N	C(4)	Current status of the assignment

105 PACK_OP_ASSGNMT

OperatorNo	Y	Y	*	
PkOpAssgNo	Y	N	N(9)	Packing operation assignment no.
PkSPeriod	N	Y	*	
ConsShOrdNo	N	Y	*	
OprnCode	N	Y	*	
PkWrkUnits	N	N	N(5)	Packing work units performed
PkWageErnd	N	N	N(5,2)	Wage earned

106 PACK_OPERATION

OprnCode	Y	Y	*	Packing operation code
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107 OPERATION

OprnCode	Y	N	C(8)	Operation ID code
JobCode	N	Y	*	
OprnCatg	N	N	C(8)	Operation category (sew, pack, etc.)
OprnName	N	N	C(15)	Name of the operation
OprnDescr	N	N	C(150)	Description
OprnStdHrs	N	N	N(3)	Standard hours
OprnCost	N	N	N(7,2)	Operation cost

108 CR_OPERATION

OprnCode	Y	Y	*	
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109 STYLE_CONCEPT

CustomerCode	N	Y	*	
StyConceptNo	Y	N	N(9)	Design concept number
StyleNo	N	Y	*	
StyConFile	N	N	C(80)	File containing details of concept
StyConStat	N	N	C(4)	Status of the style concept

110 PAT_GRADE_POINT

GraPointNo	Y	Y	*	
BasPatNo	Y	Y	*	
RunNo	Y	Y	*	
PatParNo	Y	Y	*	
GPLocX	N	N	N(4,1)	X coordinate of the point
GPLocY	N	N	N(4,1)	Y coordinate of the point

111 GRADE_POINT

GraPointNo	Y	N	N(3)	ID number of a grade point
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112 SHIPPING_NOTICE

ShipNoticeNo	Y	N	N(9)	Shipping notice sequence number
ShipOrdNo	Y	Y	*	
ShipOrdItNo	N	Y	*	
ShipItQty	N	N	N(6)	Quantity of item shipped

113 SOURCE

SourceCode	Y	N	C(8)	ID code for a source
OprnCode	N	Y	*	
SourceName	N	N	C(80)	Source's name
SourceLoc	N	N	C(100)	Source's location
SourceLead	N	N	N(4)	Lead time required by source
SourceRating	N	N	C(3)	Rating of source for a specific operation

114 OP_REPORT

OpRepNo	Y	N	N(9)	Operation report serial number
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115 OP REP ITEM

OpRepNo	Y	Y	*	
OpRepItNo	Y	N	N(9)	Operation report item sequence number
OprnCode	N	Y	*	
OpRepDate	N	N	D	Date on which op. item report was created
OpRepItComment	N	N	C(100)	Comment of person creating report